



# भारत का राजपत्र

## The Gazette of India

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सं० 24]

नई दिल्ली, शनिवार, जून 13, 1981 (ज्येष्ठ 23, 1903)

No. 24]

NEW DELHI, SATURDAY, JUNE 13, 1981 (JYAISTHA 23, 1903)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS & DESIGNS  
Calcutta, the 13th June 1981  
CORRIGENDUM

(1)

In the Gazette of India Part III, Section 2 dated 27th October 1979, under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 643, column 2, against No. 147046 please insert "Division of Application No. 244/Cal/76 filed 10th February 1976" after "Application No. 1416/Cal/77 filed September, 20, 1977".

(2)

In the Gazette of India, Part III, Section 2 dated the 2nd August, 1980 at page 418, column 1 under the heading "CESSATION OF PATENTS".

Delete No. "141513"

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

7th May, 1981

478/Cal/81 Fosroc International Limited, Self-levelling cementitious mixes. (May 7, 1980).

479/Cal/81 Stamicarbon B. V. Process for the preparation of a polymerization catalyst and preparation of ethylene therewith.

480/Cal/81 Halifax Tool Company Limited, Free piston machines. (May 9, 1980). (December 16, 1980).

481/Cal/81 USV Pharmaceutical Corporation. Antihypertensive lactams.

482/Cal/81. Champion Spark Plug Company. Preventing corrosion of zinc and cadmium.

483/Cal/81, Sredneaziatsky Nauchno-Issledovatel'sky Institute Prirodnogo Gaza. Method and apparatus for preparing a mixture of liquid and solid phases.

8th May, 1981.

484/Cal/81. Koslow Technologies Corporation. Method of promoting water transport through soil.

485/Cal/81. Energy Conversion Devices, Inc. Catalytic bodies and method of making the same.

485/Cal/81, Sapco System analyse und Project control GmbH. Process for producing mixtures of thermoplastic synthetic resins and mineral or organic fillers and apparatus for performing the process.

487/Cal/81. Uddeholms Aktiebolag. Method of granulating metal melts.

488/Cal/81. J. K. Singh. Wind harness device.

489/Cal/81. P. K. Ghosh. An improved process for continuous direct reduction of iron ore in shaft furnace by gaseous reductants.

490/Cal/81. Franz Plasser Bahnbaumaschinen-Industriegesellschaft M.B.H. Rail line construction machine with device for correction of rail position.

11th May, 1981

491/Cal/81. SKF Steel Engineering Aktiebolag. Method of producing molten metal consisting mainly of manganese and iron, although the molten metal may possibly contain silicon.

- 492/Cal/81. O. F. Larsen. Method and apparatus for producing and laying a ballasted mat for ground stabilization.
- 493/Cal/81. Fosco International Limited. Desulphurisation of ferrous melts. (May 10, 1980).
- 494/Cal/81. F. Kocsis. Improvements in and relating to windmills. (May 9, 1980).
- 495/Cal/81. United Technologies Corporation. Wind turbine with yaw trimming.
- 496/Cal/81. R. S. Pandey and G. P. Pandey. Novel constructional units and structures made therewith.
- 497/Cal/81. Manjusti Banerjee and D. Bandyopadhyay. The method of extraction of silica from husk-ash.  
12th May, 1981.
- 498/Cal/81. Nippon Zeon Co. Ltd. Process for separating relatively easily soluble hydrocarbons from a hydrocarbon mixture.
- 499/Cal/81. Texas Alkyls, Inc. Organomagnesium solutions of low viscosity.
- 500/Cal/81. Ciba-Geigy AG. A process for the manufacture of novel benzazole derivatives, pharmaceutical preparations containing these derivatives, and their use.
- 501/Cal/81. Compagnie Neerlandaise De l'Azote (Societe Anonyme). A process for the production of urea granules.  
13th May, 1981.
- 502/Cal/81. Kraftwerk Union Aktiengesellschaft. Hydraulic drive apparatus.
- 503/Cal/81. Kraftwerk Union Aktiengesellschaft. Hydraulic drive apparatus.
- 504/Cal/81. East India Pharmaceutical Works Ltd. A process for the preparation of N-methyl-2-p-toluenesulphonylamido-5-chlorobenzophenone.
- 505/Cal/81. Cummins Engine Company, Inc. Oil cooled internal combustion engine.
- 506/Cal/81. Danly Machine Corporation. Computer directed loading and unloading device.
- 507/Cal/81. N. V. Philips' Gloeilampenfabrieken. An error-correcting data transmission method, a device encompassing such error-correcting data transmission method, a data carrier produced by executing such error correcting data transmission method, a decoder for use with such error-correcting data transmission method, and a device encompassing such decoder.

APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, TODI ESTATES, 3RD  
FLOOR, YOWER PAREL (WEST), BOMBAY-400 013.

8th April, 1981.

- 99/BOM/81. Vinet Subhash Marathe. A device for controlling water level in tanks.
- 100/BOM/81. Shirish Bhailal Patel. Solar cooker using a compound parabolic concentrator and a glass vessel cover.
- 101/BOM/81. Joshi Nandakumar Ramchandra. Electronic for time management.  
9th April, 1981.
- 102/BOM/81. Suresh Waman Mulgaonkar. Click on type single stage regulator for liquid petroleum gas and similar bottled gas cylinder and installation.
- 103/BOM/81. Hindustan Lever Limited. Treatment of perfumery materials.
- 104/BOM/81. Hindustan Lever Limited. Washing bar (11th April, 1980).
- 105/BOM/81. Hindustan Lever Limited. Bleaching liquid cleaning composition (11th April, 1980).

- 106/BOM/81. National Organic Chemicals Limited. New process for the manufacture of N-methyl-2-(1-hydroxy-2-2-2-trichloroethyl) aceto acetamide.

10th April, 1981.

- 107/BOM/81. Pradil Chandubhai Patel. Pilferproof closure-cum-spout for liquid containers.
- 108/BOM/81. Pradip Chandubhai Patel. A self locking closure for pharmaceutical container.  
13th April, 1981.
- 109/BOM/81. 1. Priyal Khanderao Kulkarni, and 2. Vijay Priyal Kulkarni. Improvements in or relating to pressure cooker.

APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,  
MADRAS-600 002.

4th May, 1981.

- 90/Mas/81. B. S. S. R. Aiyer. A method of construction of walls in building constructions.
- 91/Mas/81. C. I. S. Rao. Improvements in or relating to electrolysis of salicylic acid into salicylic aldehyde.  
5th May, 1981.
- 92/Mas/81. S. Savithri. A process relating to manufacture of ready-to-eat Pan-Beeda.
- 93/Mas/81. J. Murali. Murali turbine.  
6th May, 1981.
- 94/Mas/81. Electronics Corporation of India Ltd.. Electronic Voting Machine.  
7th May, 1981.
- 95/Mas/81. S. Kunchithapadam & K. Swaminathan. Animal drawn rotary tiller for wet land.
- 96/Mas/81. M. Kandasamy. Ratchet four wheeler.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS : 32F2 b.

148775

Int. Cls. : CO7d 51/00.

"PROCESS FOR PREPARING AN ARYL-PYRIDAZINY-HYPAZINE SALT"

Applicants : SMITH KLINE & FRENCH LABORATORIES LIMITED (U.K.).

*Inventors* : BRIAN EPIC BURPITT, MICHAEL JAMES GRAHAM, ANTHONY MAITLAND.

Application No. 619/DEL/78 filed August 21, 1978.

CONVENTION DATE : AUGUST 4, 1978 (J3312) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-5.

### 6 Claims

A process for preparing racemic 3-[2-(3-t-butyl-amino-2-hydroxypropoxy) phenyl]-6-hydrazinopyridazine dihydrochloride monohydrate characterised in that racemic 3-[2-(3-t-butyl-amino-2-hydroxypropoxy) phenyl]-6-hydrazinopyridazine or an acid addition salt of this compound is reacted with from 1.8 to 2.2 molar equivalents of hydrogen chloride and sufficient water to provide 1.1 molar equivalents, for each molar equivalent of pyridazine base to produce the dihydrochloride monohydrate and the dihydrochloride monohydrate is isolated as the solid particulate salt.

(Complete Specification 20 Pages. Drawing 1 Sheet.)

CLASS : 24-D<sub>9</sub>, 158 C. 148776

Int. Cl. : B61h-13/00.

"THREE PRESSURE CONTROL VALVE FOR AN INDIRECTLY ACTING COMPRESSED AIR BRAKE".

*Applicants* : WERKZEUGMASCHI NENFABRIK OERLIKON-BUHRLE AG. Switzerland.

*Inventors* : MARIO FASOLI.

Application No. 628/DEL/78 filed on August 23rd, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-5.

### 3 Claims

A three-pressure control valve for use on an indirectly acting compressed-air brake of the type used in rail vehicles, comprising : a filling and isolating element (C) which contains : an auxiliary air reservoir (12), a first spring-loaded piston (20, 21) arranged in a cylinder housing (35) containing two chambers (13, 19), one chamber (13) being loaded by the brake cylinder (15) pressure and the other chamber (19) being loaded by atmospheric pressure, a second spring-loaded piston (30) arranged in said cylinder housing (35) containing two other chambers (24, 31), one chamber (31) being loaded by the control reservoir (33) pressure and the other chamber (24) by the pressure in the main air line (29), a piston rod (22) which on one side is fixed to the first piston (20) and on the other side to a valve disc (62) arranged in said chamber (24) which together with a valve seat (69) on the second piston (30) forms a first valve (61) in said cylinder housing (35) for filling the control reservoir (33), a stop (67) arranged on said piston rod (22) in order to transmit the brake cylinder (15) pressure to the second piston (30), a second valve (28) arranged in said chamber (24) which can be actuated by the second piston (30) for filling the auxiliary air reservoir (12) connected to said cylinder housing (35) by an air pipe (11), and a cylindrical throttle body (71) fixed to said valve disc (62) protruding into a throttle orifice (70) and adapted to be displaced relative to the throttle orifice (70), the central part of which has a smaller diameter than its two ends.

(Complete specification 16 Pages Drawing one sheet)

CLASS : 24 D<sub>9</sub>, 148777

Int. Cl. : B 61h-13/00.

B 60t-13/26.

"CONTROL VALVE FOR AN INDIRECTLY ACTING COMPRESSED AIR BRAKE OF TYPE USED IN RAIL VEHICLES".

*Applicants* : WERKZEUGMASCHINENFABRIK OERLIKON-BUHRLE AG. OF BIRCHSTRASSE 155, 8050 ZÜRICH, SWITZERLAND, A COMPANY ORGANISED UNDER THE LAWS OF SWITZERLAND.

*Inventors* : MARIO FASOLI OF VIA PUCCIMOTIHI, 89, 50129, FIRENZA, (ITALIA) ITALIAN NATIONALITY.

Application No. 629/DEL/78 filed on 23rd August, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-5.

### 2 Claims

A control valve for an indirectly acting compressed air brake for rail vehicles said valve comprising :

- a main control element (A) for controlling the pressure in a brake cylinder (15) in function of the pressure of the main air pipe (29).
- a filling and isolating element (C) for filling and isolating an auxiliary air cylinder (12),
- a pressure limiting valve (D) for limiting the pressure in the brake cylinder (15),
- a trigger valve (E) for releasing the brake and
- an intensifier valve (B) for accelerating the braking effect, which, on braking, can be actuated by a main control piston (80) via a swivelling lever (37) in the direction of opening,
- an locking device (40) supported by the swivelling lever (37) for actuating said swivelling lever (37) by said brake cylinder pressure,
- said unlocking device (40) having;
- a small unlocking piston (41) supported via piston-rod (43) on said swivelling lever (37) and
- a large unlocking piston (42) supported via an other piston rod (44) on said small unlocking piston (41), wherein
- the large piston (42) is loaded by a first spring (53) in the unlocking direction transverse to said direction of opening,
- the small piston (41) is loaded by a second spring (45) in a direction opposite to the unlocking direction and transverse to said direction of opening,
- a first chamber (52) located between the two pistons (41, 42) is connected to said brake cylinder (15),
- a second chamber (53) on the other side of the large piston (42) is connected by a throttle (55) to the first chamber (52), and
- a third chamber (54) on the other side of the small piston (41) is connected to the atmosphere.

(Com. Specn. 16 Pages. Drg. one sheet.)

CLASS : 24-D4-E, B 148778

Int. Cl. : F. 16d-55/10, 65/24.

IMPROVEMENTS IN SPREADING DISC BRAKES FOR VEHICLES.

*Applicants* : GIRLING LIMITED, A BRITISH COMPANY, KINGS ROAD TYSELEY, BIRMINGHAM 11, ENGLAND.

*Inventors* : ANTHONY GEORGE PRICE.

Application No. 634/DEL/78 filed on 28-8-1978.

Convention date : September 19, 1977/(38910/1977) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg Karol Bagh, New Delhi-110 005.

### 7 Claims

A spreading disc brake of the kind set forth in which the expander mechanism incorporates an hydraulic piston and cylinder assembly which is operative to move the pressure plates away from the each other when the cylinder pressurised, the piston and cylinder assembly comprising an annular cylinder provided in one of the pressure plates, and an

annular piston working in the cylinder, the cylinder having a radially outermost wall, and a radially innermost wall, and the piston having a radially outermost face, and a radially innermost face, a first seal of elastomeric material for slidable sealing engagement with the innermost face of the piston being housed in a radial groove in the innermost wall of the cylinder with opposite ends of the seal in direct contact with the ends of the groove, a second seal of elastomeric material for sliding sealing engagement with the outermost wall of the cylinder being housed in a radial groove in the outermost face of the piston, means being provided for admitting hydraulic fluid under pressure into the cylinder to urge the pressure plates axially into engagement with the discs so that the plates can be carried round with the discs, and means being provided for moving pressure plates angularly in opposite directions with the bells tending to ride out of the recesses to cause the plates also to move axially in opposite directions into engagement with the disc.

Comp. Spec. 8 Pages.

Drg. 4 Sheets.

CLASS : 147 CE.

148779

Int. Cl. : G. 11b-21/00, 5/12, 5/22.

"METHOD OF PRODUCING MULTI-CHANNEL MAGNETIC RECORDING/PLAYBACK HEADS WITH IMPROVED CROSSTALK ATTENUATION AND THE MAGNETIC HEAD SO PRODUCED."

*Applicants* : BUDAPESIT RADIOTECHNIKAI GYAR.*Inventors* : STENEZINGER SANDOR, TOROK BELA.

Application No. 637/DEL/78 dt. 29th August, 1978.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patents Office Branch, Municipal Market, Saraswati Marg Karol Bagh, New Delhi-110 005.

## 6 Claims.

A method for producing multi-channel magnetic recording and or playback heads with improved crosstalk attenuation properties, comprising the steps of producing half-bodies, making pole slots in each half body, placing respective pole bundles in each pole slot, fixing the pole bundles in the placed position providing shielding slots in each half-body to receive shielding plates, forming the gap profile in the half-bodies then placing a gap foil between two half bodies facing to each-other and attaching these half bodies together with the gap foil there between, placing shielding plates in each shielding slots, fixing the position of the structural elements by applying an adhesive and forming the final head profile, characterized in that said shielding slots are so made as to extend through the full height of the half-bodies; pressing the two half-bodies together during said attaching step with the gap foil there between; maintaining the pressure till the bonding of the applied adhesive; cutting the gap foil between each opposing pair of shielding slots just before the placement of said shielding slots just before the placement of said shielding plates; wherein placing said shielding plates in said shielding slots is such that each shielding plate substantially covers the full area of the communicating pair of opposing shielding slots in the two attached half-bodies to have an edge extending till the head mirror of the final head profile.

Comp. Specn. 17 Pages.

Drg. 5 Sheets.

CLASS : 24D<sub>0</sub>.

148780

Int. Cl. : B 61h-13/00, B60t-13/38, 15/04.

"PRESSURE CONTROLLER FOR THE DRIVER'S BRAKE VALVE OF AN INDIRECTLY ACTING COMPRESSED AIR BRAKE".

*Applicants* : WERZEUGMASCHINENFABRIK OERLIKON-BUHRLE AG.*Inventors* : MULIER WALTER, DEUTSCH HEINZ., OLDANI KARL.

Application No. 644/DEL/78 filed on August 30th, 1978.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patents Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.

## 4 Claims.

A pressure controller for the driver's brake valve of an indirectly-acting compressed air brake, comprising :

a pressure control valve which is arranged between a compressed air supply and a main brake pipe, having;

a mobile valve disc, a stationary valve seat interacting with said valve disc;

a piston rod and a mobile valve seat located on one end of said piston rod for actuating said valve disc, characterised by;

a differential piston for actuating the valve disc of said pressure control valve, located on the other end of the piston rod having;

a large piston face confining a first chamber subjected to the control pressure in the main brake pipe, a small piston face confining a second chamber subjected to a substantially constant air pressure in said second chamber and to the force exerted by an adjustable spring, whereby said control pressure is acting in the direction to close the control valve for venting said brake pipe and the constant air pressure and said adjustable spring is acting in the opposite direction to open said control valve for filling said brake pipe.

Com. Specn. 7 Pages.

Drg. One Sheet.

CLASS : 24D<sub>0</sub>.

148781

Int. Cls. : B60t-13/38, 15/02.

B61h-13/00

"INDIRECTLY-ACTING COMPRESSED-AIR BRAKE".

*Applicants* : WERKZEUGMASCHINENFABRIK OERLIKON BUHRLE AG. SWITZERLAND.*Inventors* : WALTER, MULIER, HEINZ DEUTSCH., KARL OLDANI.

Application No. 645/DEL/78 filed on 30th August, 1978.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patents Office Branch, Municipal Market, Saraswati Marg Karol Bagh, New Delhi-110 005.

## 3 Claims.

An indirectly-acting compressed-air brake comprising:

a driver's brake valve which has a pressure controller, a main control valve for controlling the pressure in the main brake pipe, a control pipe connecting said pressure controller with said main control valve a device comprising piston arranged on the main control valve, an electropneumatic valve loading the piston with compressed air from the compressed air supply pipe for the brake and a vent valve for cancelling the load on the piston when braking.

Com. Specn. 7 Pages.

Drg. one Sheet.

CLASS : 35C.

148782

Int. Cl. : C04b 13/00.

"A PROCESS FOR THE PREPARATION OF A READY MIX CONCRETE COMPOSITION".

*Applicants* : THE DIRECTOR GENERAL CEMENT RESEARCH INSTITUTE OF INDIA.*Inventors* : HOSANGARHA CHANDRASHEKHARIA VISHVESVARAYA, AJOY KUMAR MULLICK, SUBASH CHANDER MAITY, RATTAN LAL, ACHINTYA KUMAR.

Application No. 647/DEL/78 filed 31st August, 1978.

Complete Specification Left on : August 2, 1979.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patents Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110 005.

## 1 Claim.

A process for the preparation of ready mix concrete composition for transportation to work site without causing an agitation by agitators during transportation comprising the

step of forming a mixture of cement, sand, coarse aggregates and known selected additives, if any, the ratio of the fine aggregates to the coarse aggregates being between 1:3 to 1:1, adding only 50 to 80% of water necessary for forming cement concrete composition and mixing the said mixture and water, the balance of water being added at the time of application of said composition.

Com. Specn. 7 Pages.

CLASS : 6H & K.

148783

Int. Cl. : F 27 b 7/14.

#### A DRIER.

*Applicant & Inventor* : SRINIVASAGAM PILLAI RAMASAMY, ACHARAPPAN STREET, MADRAS-600 001, TAMIL NADU.

Application No. 114/Mas/78 filed July 31, 1978.

Complete specification filed June 21, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 11 Claims.

A drier comprising at least one screw/worm conveyor disposed within a first shell; an inlet and an outlet provided for the conveyor for the feed and discharge of the substance to be dried; a second shell enveloping the first shell and spaced therefrom, the resulting gap between the first and second shells being occupied by a thermal damper; means for driving the conveyor and means for heating the second shell, the arrangement being such that the heat imparted to the second shell transmitted to the interior of the first shell is damped in the gap to cause the said substance to be properly dried without being overheated.

Com. 10 Pages.

Drg. 1 Sheet.

CLASS : 156A & B

148784

Int. Cl. : F 04 b 17/04.

#### A PUMP.

*Applicants & Inventors* : COIMBATORE SUBRAMANIAM MHENAKSHI SUNDARAM & KUMAR SALIGRAM, ELPAAS CORPORATION, COIMBATORE-641 012, TAMIL NADU.

Application No. 127/Mas/78 filed August 16, 1978.

Complete specification left August 16, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 2 Claims.

A pump comprising a hollow spring-loaded plunger disposed in a cylinder; one-way inlet and outlet valves provided for the cylinder for the ingress and egress of the fluid to be pumped, characterised by an electronic oscillator provided with a signal coil and a main coil (solenoid) the said signal coil being wound around the main coil, for successively drawing the plunger away from the spring, to cock the said spring, and for releasing the plunger thereafter, so as to revert it under spring tension, thus causing the plunger to reciprocate within the cylinder and draw in, and pump out, the said fluid.

Prov.-4 pages;

Com.-6 pages;

Drg.-1 sheet.

CLASS 129P & 15C.

148785

Int. Cl. : B 23 q 1/26.

#### HYDROSTATIC BEARING FOR TURRET SPINDLE OF A TURRET LATHE.

*Applicant* : HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

*Inventors* : (1) KAPLINGAT NARAYANAN &

(2) PANDOMPATOM RADHAKRISHNAN.

Application No. 155/Mas/79 filed September 14, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim.

A hydrostatic bearing for turret spindle of a turret lathe comprising a bearing housing wherein four oil pockets are provided at 90° apart, a turret spindle having a piston, a tool drum and a cross spider fixed thereon, the said turret spindle capable of being moved to left or right by pressure of oil on the corresponding sides of the said piston, a small clearance being provided between the turret spindle and the housing of the hydrostatic bearing through which the oil under pressure in the said pockets will leak through thereby creating a pressure drop and thus enabling the turret spindle to float in the hydrostatic bearing.

(Com. 3 pages; Drg. 1 sheet of size 33.00 cms. × 41.00 cms.)

CLASS : 120C & 129P.

148786

Int. Cl. : B 23 q 11/12.

#### DEVICE FOR AUTOMATIC INTERMITTENT LUBRICATION OF TURRET LATHES.

*Applicant* : HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

*Inventors* : KAPLINGAT NARAYANAN & PANDOMPATOM RADHAKRISHNAN.

Application No. 157/Mas/78 filed September 14, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim.

A device for automatic intermittent lubrication to be used in a hydraulically operated automatic turret lathe comprising a body having a spring loaded plunger with an adjustable travel distance depending upon the requirement of the lubricating oil, one end of the said plunger being larger in diameter to accommodate an 'O' ring, the said plunger being positioned inside the body with a clearance so as to allow the oil for lubrication to flow through, a spacer mounted near the enlarged portion of the said plunger, the thickness of the said spacer to be varied to adjust the stroke of the said plunger and the said plunger on being pushed by the oil under pressure against the spring releases the desired quantity of lubricating oil.

Com. — 3 pages;

Drg. — 1 sheet.

CLASS : 129P.

148787

Int. Cl. : B 23 b 17/00.

#### LATHE BED FOR CENTRE LATHE.

*Applicant* : HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

*Inventors* : (1) VIRAVANAILLUR SUNDARAM MURALI,

(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR,

(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 159/Mas/78 filed September 14, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim.

A lathe bed for centre lathe comprising a removable gap piece near the chuck which when in position forms a straight lathe bed along with the other existing parts of the lathe, the cabinet leg of the lathe being extended to support the bed below the gap piece for rigidity.

(Com.-2 pages; Drg.-1 sheet of size 33.00 cms. × 41.00 cms.)

CLASS : 120B & B & 129P.

148788

Int. Cl. : B 23 q 11/12.

#### AUTOMATIC LUBRICATION SYSTEM FOR GUIDEWAYS OF A CENTRE LATHE.

**Applicant :** HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

**Inventors :** (1) VIRAVANALLUR SUNDARAM MURALI,  
(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR.  
(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 161/Mas/78 filed September 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim

An automatic lubricating system for guideways of a centre lathe comprising a plunger pump mounted at the bottom of the apron, an eccentric connected to one of the drive shafts of feed box, a rotary valve in the apron for diverting oil flow either to saddle guideways and apron gears or to cross slide guideways and apron gears or to apron drive gears only, depending upon the position of the said valve and tubes for distribution of oil to required points from the said rotary valve.

(Com.-2 pages; Drg.-1 sheet of size 33.00 cms. × 41.00 cms.)

CLASS : 163B<sup>a</sup> + C & 129P.

Int. Cl. : B 23 q 11/12 & F 04 c 17/00.

**REVERSIBLE GEAR PUMP FOR MACHINE TOOL LUBRICATION.**

**Applicant :** HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

**Inventors :** (1) VIRAVANALLUR SUNDARAM MURALI,  
(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR.  
(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 162/Mas/78 filed September 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim

A reversible gear pump comprising a pump body, a pair of gears, the said gears being mounted in the said pump body, two suction ports connected to a common suction line and two separate delivery ports connected together by passages having check valves for unidirectional flow of oil, the said gears when driven by an external source of power discharges oil through the delivery port.

(Com.-3 pages; Drg.-1 sheet of size 33.00 cms. × 41.00 cms.)

CLASS : 129P. 148790

Int. Cl. : B 23 b 23/00.

**LATHE TAILSTOCK.**

**Applicant :** HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

**Inventors :** (1) VIRAVANALLUR SUNDARAM MURALI,  
(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR.  
(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 163/Mas/78 filed September 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim

A lathe tailstock characterised in that three spring loaded bushes carrying rollers are provided such that two rollers are adapted to move on the flat guideway of the lathe and one on the Vee guideway of the lathe, the arrangement being such that when the tailstock is unclamped the said rollers move out to support the weight of the tailstock and the said rollers move inside so that tailstock base rests directly on the bed when clamped.

(Com.-2 pages; Drwgs.-2 sheets one of size 33.00 cms × 41.00 cms.)

CLASS : 129P.

148791

Int. Cl. : B 23 b 23/00.

**A CLAMPING DEVICE FOR TAILSTOCK OF A LATHE.**

**Applicant :** HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

**Inventors :** (1) VIRAVANALLUR SUNDARAM MURALI,  
(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR.  
(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 164/Mas/78 filed September 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim

A clamping device for tailstock of a lathe, comprising a hand lever eccentric cam, a clamp block having a fulcrum at one third the length about which the clamp block is to be oscillated, the clamp block being connected to the tailstock and the eccentric cam, the said eccentric cam being operable by a hand lever and the said clamp block clamping the tailstock against the guideway of lathe bed when the said hand lever is operated.

(Com.-3 pages; Drg.-1 sheet of size 33.00 cms. × 41.00 cms.)

CLASS 129 P.

148792

Int. Cl. : B 23 b 17/00.

**LATHE BED.**

**Applicant :** HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

**Inventors :** (1) VIRAVANALLUR SUNDARAM MURALI,  
(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR.  
(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 165/Mas/78 filed September 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim

A lathe bed having a closed box type body, the front guide ways thereof forming one side of the said body, the rear wall being connected to the front wall by two straight ribs, the closed hollow frame of the said body filled with core sand so as to give maximum damping property and is computer optimised to get higher rigidity to weight ratio.

(Com.-2 pages; Drwgs.-2 sheets, each of size 33.00 cms. × 41.00 cms.)

CLASS : 129P.

148793

Int. Cl. : B 23 q 5/06.

**HYDRAULIC CLUTCH AND BRAKE CIRCUIT FOR MACHINE TOOLS.**

*Applicant* : HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

*Inventors* : (1) VIRVANALLUR MURALI, SUNDARAM

(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR.

(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 166/Mas/78 filed September 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim

A hydraulic clutch and brake circuit for machine tools to provide interlocking between the brake and the clutches comprising a pump to supply oil under pressure, a rotary valve with two spools connected together, each spool having three positions, the first spool connecting the pump to the brake and sump and the second spool connecting the pump to two clutches and sump, a safety relief valve in the hydraulic circuit, the arrangement being such that simultaneous engagement of a clutch and brake does not occur at any position of the rotary valve.

(Com.-4 pages; Drawgs.-2 sheets, one sheet of size 33.00 cms. X 41.00 cms.)

CLASS : 129P.

148794

Int. Cl. : B 23 q 5/06.

SPEED SELECTION AND GEAR SHIFTING MECHANISM FOR A CENTRE LATHE.

*Applicant* : HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

*Inventors* : (1) VIRAVANALLUR MURALI, SUNDARAM

(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR,

(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 167/Mas/78 filed September 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 2 Claims

A speed selection and gear shifting mechanism for a centre lathe comprising a speed selecting lever, a drum cam with helical grooves in it, a set of levers oscillating about its own fulcrum and having pins at both ends, the said pins at one end being guided by the grooves in the said drum cam, the pins at the other end of the said set of levers being guided in the slots on shift forks, and a range selecting lever co-axial with the speed selecting levers and having a rack and gear arrangement for range selection such that range selection is effected by operating the range selection lever and speed selection is effected by operating the said speed selection lever.

(Com.-3 pages; Drawgs.-2 sheets, one sheet of size 33.00 cms. X 41.00 cms.)

CLASS : 120C, & 129P

Int. Cl. : B 23 q 11/12.

A LUBRICATION SYSTEM FOR A MACHINE TOOL.

*Applicant* : HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560 052, KARNATAKA.

*Inventors* : (1) VIRAVANALLUR MURALI, SUNDARAM

(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR,

(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 168/Mas/78 filed September 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim

A lubricating system for machine tool comprising an oil tank provided in the hollow body of the leg of the machine tool, the said oil tank having outlets leading to the different points of the machine tool to be lubricated, the said tank housing a gear pump, a suction strainer and a filter, the gear pump being driven by the main motor of the machine tool through belts, the oil in the tank on being pumped by the gear pump passes through the said filter before it flows out through the outlets to the points to be lubricated.

Com.-3 pages;

Drwg.-1 sheet

CLASS : 132A\* & C.

Int. Cl. : B 01 f 7/16 & A 22 c 17/12.

BLADE FOR USE IN CONVENTIONAL MIXING MACHINES FOR MINCING/GRATING/MIXING EDIBLE SUBSTANCES.

*Applicant & Inventor* : MADHURI MATHUR, PROPRIETRIX, POWER CONTROL AND APPLIANCES COMPANY, F-11 INDUSTRIAL ESTATE, AMBATTUR, MADRAS-600 058, TAMIL NADU.

Application No. 200/Mas/78 filed October 28, 1978.

Complete specification left January 28, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 10 Claims

A blade for use in conventional mixing machines for mincing, grating or mixing edible substances, the said blade comprising a horizontally disposed central section, two wing portions provided on either side of the said central section and integrally formed therewith, each said wing portion being provided with a cutting edge, one of the said wing portions being curved outwardly and upwardly at a radius of curvature depending on the dimension of the vessel or jar of the said mixing machines, while the other wing portion is depressed downwardly at a substantial angle to form an inner section thereof and is thereafter extended to form an outer section which reoccupies a horizontal plane, the angle of depression of the said inner section being dependent on the contour of the can provided with drive shaft of the motor of the said mixing machines while the length of said inner section being dependent on the height of the said can.

Com.-9 pages;

Drwgs.-1 sheet

CLASS : 133B.

148797

Int. Cl. : H 02 p 7/24.

CONTRACTORLESS THREE PHASE RESISTANCE CONTROLLER FOR ALTERNATING CURRENT THREE PHASE SLIPRING INDUCTION TYPE ELECTRIC MOTOR.

*Applicants & Inventors* : (1) DR. PAIGHAT SRIRAMU SRIIVASAN, (2) CHEMMANGOT VELAYUDHAN & (3) PAUL KRISHNAN CHARLU DEPARTMENT OF ELECTRICAL ENGINEERING, REGIONAL ENGINEERING COLLEGE, CALICUT, KERALA.

Application No. 224/Mas/78 filed December 4, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 1 Claim

A contractorless three phase resistance controller for alternating current three phase slipring induction type electric motor with terminals A, B & C, consisting of two sets of three identical noninductive resistors R1A, R1B & R1C and R2A, R2B & R2C and two triacs TC-1 & TC-2, being electrically connected such that the resistors R2A, R2B &

R2C are connected respectively between the terminals A & N<sub>1</sub>, B & N<sub>2</sub> and C & N<sub>2</sub> where N<sub>2</sub> is a common terminal, the resistors R1A & R1B are connected between the terminal A and the terminal T<sub>2</sub> of triac TC-1 and the terminal B and the terminal T<sub>2</sub> of triac TC-2 respectively, the resistor R1C is connected between the terminal C and terminal N<sub>1</sub> to which the terminals T<sub>1</sub> of the triacs TC-1 and TC-2 being connected.

Com.-4 pages;

Diwgs.-1 sheet

#### CORRECTION OF CLERICAL ERRORS

Under section 78(1) of the Patents Act, 1970 certain clerical errors occurring in the specification of patent application No. 146908 were corrected on 28th April, 1981.

#### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

(1)

80579 100158 108464 114409 117744 119866 120515 121085  
121989 122008 124424 122428 124457 124491 124681 126935  
128798 128845 129040 131479 131807 131664 133269 133340  
135286 138075 138076 138077 138078 138079 138080 138081  
138082 138083 138084 138085 138086 138087 138088 138089  
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138098 138099 138100 138101 138102 138103 138104 138105  
138106 138107 138108 138109 138110 138111 138112 138113  
138114 138115 138116 138117 138118 138119 138120.

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139306 139307 139309 139310 139311 139312 139313 139314  
139317 139318 139320 139321 139322 139324 139325 139326  
139327 139329 139330 139331 139332 139333 139334 139336  
139337 139338 139339 139340 139341 139342 139343 139344  
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145212 146229 146272 147119 147168 147342 147587 147597  
147607 147609 147621 147627 147639 147642 147645 147647  
147649 147651 147655 147668.

*Claim under Section 20(1) of the Patent Act, 1970.*

Notice is hereby given that claim made by Nippon Clean Engine Research Institute Co. Ltd under section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 740/DEL/78 in their name has been allowed.

#### AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

Notice is hereby given that Vereinigte Oesterreichische Eisen-Und Stahlwerke-Alpine Montan Aktiengesellschaft of 1011 Vienna, Friedrichstrasse 4, Austria, a company organised under the laws of Austria have made an application

#### COMMERCIAL WORKING OF PATENTED INVENTIONS

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar Year 1979, generally on account of want of requests for licences to work the patent inventions.

Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Sr. No.	Patent No.	Date of Patent	Name and address of the party.	Title of the invention
1	2	3	4	5
1.	144287	30-06-1973	CHINOIN GYOGYSZER ES VEGYESZETI TERMEKER GYARA RT, 1-5 to U, Budapest IV, Hungary.	Preparation of amino-imidazo and amine pyrazolo isoquinolines.
2.	144289	17-11-1976	DEGUSSA, 9 Weiss frauen Strasse, Frankfurt (Main), FRG.	Preparing new 6 aryl-5 triazolo-(4,3-a) pyrido (3, 3-f)-1,4-diazepines.

under Section 57 of the Patents Act, 1970 for amendment of their application for Patent No. 147463 for "Cutting specification of Machine." The amendments are by way of renaming of name of the applicants from Vereinigte Oesterreichische Eisen-Und Stahlwerke-Alpine Montan Aktiengesellschaft to Voest-Alpine Aktiengesellschaft. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification, at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

(2)

Notice is hereby given that Demag Aktiengesellschaft, a body corporate organised according to the laws of the Federal Republic of Germany of 41 Duisburg 1, Wolfgang-Reuter-Platz, have made an application under section 57\*\* of the patents Act, 1970 for amendment of application and specification of their application for patent No. 148346 for "Method of continuous smelting of Ferrochrome". The amendments are by way of change of name of the applicants from "Demag Aktiengesellschaft", to "Mannesmann Demag Aktiengesellschaft". The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification, at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

\*\*Federal Republic of Germany.

(3)

The amendments proposed by Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler, of 9 Weissfrauenstrasse 6000 Frankfurt (Main), Federal Republic of Germany, a body corporate organised under the laws of the Federal Republic of Germany in respect of application for patent No. 147465 as advertised in Part III, section 2 of the Gazette of India dated the 15th November, 1980 have been allowed.

(4)

The amendments proposed by Cassella Aktiengesellschaft in respect of patent application No. 146839 as advertised in Part III, Section 2 of the Gazette of India dated the 27th September, 1980 have been allowed.

(5)

The amendments proposed by Chief Controller, Research & Development, Ministry of Defence, in respect of Patent application No. 146911 as advertised in Part III, Section 2 of the Gazette of India dated the 28th June 1980 has been allowed.

#### CHEMICAL LIST NO. XVI



1	2	3	4	5
3.	144308	27-11-1975	THE LUBRIZOL CORPORATION, Cleveland, Ohio, U.S.A.	Producing nitrogen containing sulfurated Mannich condensation product used as additive for lubricant and liquid fuels.
4.	144343	15-12-1975	TEXACO DEVELOPMENT CORPORATION, 135 East 42nd Street, New York, New York, USA.	Beneficiation of low rank solid fuel.
5.	144344	28-01-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of water soluble azo dyestuffs.
6.	144349	22-06-1976	-- do --	Stable liquid water-containing dyeing compositions containing disperse and reactive dyestuffs.
7.	144352	14-02-1977	ETHICON INC, Somerville, New Jersey, U.S.A.	A needle suture combination.
8.	144366	03-08-1976	INTREPRIN DEREĂ DE MEDICAMENTE BUCUREȘTI BLVD., Ion Sudea, No. 246, Bucharest, Rumania.	Preparation of organic double salts.
9.	144389	28-01-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of liquid aqueous composition of fiber reactive azo dyes.
10.	144407	24-05-1976	MCNEIL LABORATORIES INC., Camp H 71 Road, Fort, Washington,	Preparation of halo-substituted 1-lower alkyl 5 aryl-pyrrole-2-acetic acid compounds.
11.	144408	31-03-1976	MITSUI COKE COMPANY LIMITED, 1-1, Muromachi, 2-chome, Nohonbashi, Chuo-ku, Tokyo, Japan.	Manufacturing coke.
12.	144421	20-10-1976	BATTELLE DEVELOPMENT CORPORATION, 505 King Avenue, Columbus, Ohio 43201, U.S.A.	Photo chemical collection and retrieval of solar energy employing reversible photochemical isomerization.
13.	144435	30-12-1976	METALLGESELLSCHAFT AG, 16 Frankfurt A.M. Reuterweg 14, West Germany.	Feeder for feeding coal into pressure reactor and process for gasification of coal therein.
14.	144449	07-05-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of stable monoazo dye stuffs.
15.	144463	29-07-1975	JOHN HEATHCOAT AND COMPANY LIMITED, Tiverton, Devon, England.	Bulked multifilament yarn.
16.	144464	06-01-1976	CIBA-GEIGY AG, Klybeckstrasse 141, Basle, Switzerland.	Manufacture of reactive dyestuffs.
17.	144465	28-01-1976	VEB WIRKMASCHINENBAU KARLMARX STADT, 90 Karl Marx Street, Annaberger strasse, GDR.	Severing threads, fibres, or flat shaped articles, synthetic textile materials especially for separating pile loops or pile knitting machines.
18.	144499	15-04-1976	UNILEVER LIMITED, Unilever House, Blackfriars, London EC4, England.	Preparation of dry leaf tea.
19.	144514	28-05-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of stable modification of a disazo dyestuffs.
20.	144518	21-10-1976	NORDMARK WERKE GESELLSCHAFT MIT HAFTUNG HAMBURG, Werke Uetersen/Holstein D-2082 Uetersen, FRG.	Production of new imidazole derivatives.
21.	144521	19-07-1975	INSTYTUT CHEMII SYNTETY ORGANICZNEJ "BLACHOWNIA" Kedzierzyn, Poland.	Recovering a catalyst used in manufacturing a dimethylterephthalate.
22.	144534	27-04-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparing 1-(N-β-cyanethyl-amino)-3 acylamino benzenes.
23.	144542	24-04-1976	FEDERAL-MOGUL CORPORATION, 20555 North-western Highway, Southfield, Michigan, 48075, U.S.A.	Making composite bearing material.
24.	144543	06-10-1976	OBERMAIER & CIE, Lachener Strasse 45, 6730 Nanstadt Anderweinstrasse, FRG.	Dyeing flocked textile fibers.
25.	144574	01-12-1975	MAGNESEP CORPORATION, 3719, Fourth Glenco Street, Denver, State of Colorado, U.S.A.	Obtaining more magnetic particles from a mixture of more magnetic and less magnetic particles.
26.	144575	04-02-1976	THE BABCOCK & WILCOX COMPANY, 161 East 42nd Street, New York, USA.	Recovering chemical from residual waste liquor obtained from chemical pulping process of cellulosic material.

1	2	3	4	5
27.	144576	26-05-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Disperse dyestuffs with improved safety properties and higher dyestuffs yield.
28.	144577	20-07-1976	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Making thermoplastics elastomeric compositions.
29.	144595	13-11-1975	UNITED TECHNOLOGIES CORPORATION, Hartford Connecticut, U.S.A.	Fuel cell assembly.
30.	144604	30-08-1976	THE LUBRIZOL CORPORATION CLEVELAND, Ohio, U.S.A.	Preparation of hydrocarbon substituted methylphenol compositions.
31.	144612	08-07-1975	CLEANESE CORPORATION, 1211 Avenue of the Americas, New York, U. S. A.	Producing thermoplastic polyester moulding resin.
32.	144613	25-05-1976	NIPPON SODA COMPANY LIMITED, 9-21 Sumiredevira Hiratsuka-shi, Kargawa—ken, Japan.	Preparing herbicidal compositions.
33.	144617	25-08-1976	PHILLIPS PETROLEUM COMPANY, Bartlesville, State of Oklahoma, USA.	Production of single cell protein material.
34.	144620	05-04-1977	PULP & PAPER RESEARCH INSTITUTE, Jaykaypur, Dist. Koraput, Orissa, India.	Plant for recovering chemicals from black liquor in pulp mill of 30 to 35 tons/day capacity.
35.	144630	10-09-1975	METALLGESELLSCHAFT AG, 16 Frankfurt A.M. Reuterweg 14, West Germany.	Reactor for pressure gasification of coal.
36.	144643	15-03-1976	EGYT GYOGYSZERVEGYESZETI GYAR 30, Kereszturi ut Budapest X, Hungary.	Preparation of quinoxaline dioxide derivatives.
37.	144644	13-04-1976	SAINT-GOBAIN INDUSTRIES, 62 Boulevard Victor-Hugo, Neuilly-Sur-Seine, France.	Manufacture of phenol formaldehyde resins.
38.	144645	23-07-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of water-soluble copper complex compounds.
39.	144647	27-10-1976	GENERAL ELECTRIC COMPANY, 1 River Road, Schenectady, New York, USA.	Collecting pyrolysates from a gas cooled dynamo electric machine.
40.	144657	27-03-1976	RHONE-POULENC INDUSTRIES, 22, avenue Montaigne, 75 Paris, (8th), France.	Degassing polymers and copolymers.
41.	144667	29-04-1976	THE B. F. GOODRICH COMPANY, 277 Park Avenue, New York City, New York 10017, U.S.A.	Polymerization reaction vessel internally coated with polyaromatic amine and process for polymerisation of olefinic monomers by using the vessel.
42.	144670	70-08-1976	RHONE-POULENC INDUSTRIES, 22 Avenue Montaigne, 75 Paris, (8th) France.	Preparing aluminium hydroxy chlorides.
43.	144673	25-08-1976	METALLGESELLSCHAFT AG, 16 Frankfurt A.M. Reuterweg 14, West Germany.	Carrying out exothermic process.
44.	144674	24-09-1976	C. S. I. R., Rafi Marg, New Delhi.	Preparation of new slow release herbicide to control parthenium hysterophorus linn.
45.	144687	01-04-1977	PREM CHAND LUTHER, south Eastern Railways, Garden Reach, Calcutta.	Process for reclamation of oil from used grease.
46.	144699	20-10-1976	AMERICAN CYANAMID COMPANY, Wayne, New Jersey, U.S.A.	Preparing novel 4, 5 6, 7 tetrahydro-7-oxo (oxy) benzo (b) thiophen-4- amine compounds.
47.	144758	23-06-1975	THE LUBRIZOL CORPORATION, 17100, Euclid Station, Cleveland, Ohio, USA.	Metal work piece with lubricant on surface.
48.	144759	28-03-1977	KUREHA KAGAKU KOGYO KABUSHI-KI KAISHA, No. 8, Hori-domo-cho-1 chome, Nohonbashi, Chuo-ku, Tokyo, Japan.	Producing nitrogen-containing polysaccharides having antitumor activity.
49.	144789	19-04-1975	CATERPILLAR TRACTOR COMPANY, 106 N. E. Adams Street, Peoria, Illinois, 61629, U.S.A.	Manufacture of tool from composite wear resistant alloy.
50.	144819	26-12-1975	ETHICON INC., Somerville, New Jersey, U.S.A.	Surgical suture.
51.	144822	17-02-1976	SAINT-GOBAIN INDUSTRIES, 62 Boulevard, Victor-Hugo, Neuilly-Sur-Seine, France.	Making fibres from attenuable material for example glass.
52.	144838	02-07-1976	BERNARD DEMOISEAU, 11, Rue Joseph-cursat 74100, Anneman S. Dert of Hanto Savoie, France.	Continuous combustion of mineral or organic combustibles.

1	2	3	4	5
53.	144842	17-09-1976	METALLGESELLSCHAFTAG, 16 Frankfurt A.M. Reuterweg 14, West Germany.	Producing pure concentrated ammonia.
54.	144843	24-09-1976	ALKALOIDA VEGYESZETI GYAR, Tiszavasvári, Hungary.	Contacting solid materials with solid liquid or gaseous materials and formulating plant protecting agent.
55.	144846	29-03-1977	METALLGESELLSCHAFT AG, 16 Frankfurt A.M. Reuterweg 14, West Germany.	Purification of gas produced by gasification of solid fuels.
56.	144875	09-11-1976	C. S. I. R., Rafi Marg, New Delhi.	Continuous high pressure process for hydrogenation of glucose to produce sorbitol.
57.	144882	08-09-1977	HOECHST AG, 62-30 Frankfurt/Main 80, FRG.	Continuous removal of monomers from aqueous dispersion of polymer.
58.	144921	03-12-1976	TEXACO DEVELOPMENT CORPORATION, 135 East 42nd Street, New York, N.Y. U.S.A.	Fluidised catalytic cracking with intermediate cycle gas oil stripping.
59.	144940	08-02-1977	THE LUBRIZOL CORPORATION, 17100 Euclid Stofian, Cleveland, Ohio, USA.	Lubricating composition.
60.	144941	17-02-1977	CHISSO CORPORATION, ISOZECHO, Vitaku, Osaka, Japan.	Producing vinyl chloride polymers.
61.	144959	20-04-1976	PHILLIPS PETROLEUM COMPANY, Bartlesville, State of Oklahoma, USA.	Producing catalyst useful for producing olefin polymers.
62.	144962	28-04-1976	JOHN ALVIN EASTIN, P.B. 389, Grant Nebraska, U.S.A.	Nitrogenous fertilising.
63.	144964	28-05-1977	C. S. I. R., Rafi Marg, New Delhi.	Preparation of fluorescent marking ink.
64.	144971	14-02-1977	1. ALUMINIUMIPARI TERVEZO ES KUTATO INTEZET, 56 Pozsonyi ut, Budapest XIII, Hungary. 2. ALMASFUZITOI TIMFOLDGYAR, Almasfuzito, Hungary.	Intensification of the digestion and sedimentation steps of the alumina production according to the Bayer technology.
65.	144976	06-02-1976	SAINT-GOBAIN INDUSTRIES, 62 Boulevard Victor-hugo, 7-92209, Neuilly-Sur-Seine, France.	Making fibres from attenuable material like glass.
66.	144979	01-07-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Liquid composition of reactive dyes.
67.	144980	28-07-1976	MIDLAND GLASS COMPANY INC., Cliffwood, New Jersey 07721, USA.	Producing glass products.
68.	144981	05-08-1976	THE DOW CHEMICAL COMPANY, Midland, County of Midland, Michigan, USA.	Synthetic rail road crosstie.
69.	144982	13-08-1976	CHARBONNAGES DE FRANCE, 9 Avenue Percier, 75008 Paris (Seine), France.	Producing granules by solidification of a product in liquid phase.
70.	144985	23-11-1976	TEXACO DEVELOPMENT CORPORATION, 135 East 42nd Street, New York, New York 10017, U.S.A.	Fluidised cracking catalyst regeneration process.
71.	144991	06-10-1977	KUREHA KAGAKU KOGYO KABUSHI-KI KAISHA, No. 9-11, Nohonbashi-Horidomecho, 1-chome, chuo-ku, Tokyo, Japan.	Preserving edible roots of devil's tongue.
72.	144992	23-02-1978	SAINT-GOBAIN INDUSTRIES, 62 Boulevard Victor Hugo, 7-92209, Neuilly, Sur Seine, France.	Making fibres from attenuable material.
73.	145004	15-01-1977	VAN BUREN PHILPOT JR, 104 Huddleston Street, Houston, Mississippi, U. S. A.	Method of purification of snake blood serum.
74.	145013	19-09-1977	INDIAN JUTE INDUSTRIES RESEARCH ASSOCIATION, 17 Taratola Road, Calcutta—700053.	Production of inedible and non-pathogenic cellulose and method of softening root cuttings of jute using said cellulose.
75.	145019	01-11-1976	C. S. I. R., Rafi Marg, New Delhi.	Preparation of green photoluminescent copper activated zinc sulphide phosphor (ZnS : Cu).
76.	145036	11-01-1977	UNILEVER LIMITED, Unilever House, Blackfriars, London, EC4, England.	Stabilization of compounds particularly biologically active compounds and apparatus useful for application of said stabilisation particularly for performing biological tests.
77.	145059	11-05-1976	KRAFTWERK UNION AG, 433 Mulheim (Ruhr) Wierensstr 35, FRG.	A steam generator for operation with pulverised coal and gas.

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78.	145083	07-10-1976	THE LUBRIZOL CORPORATION, P.O. Box 17100, Euclid Station, Cleveland, Ohio 44117, U.S.A.	A lubricant composition for two cycle engines.
79.	145084	07-10-1976	—do— —do—	Process for preparing amino phenol compounds.
80.	145085	27-10-1976	—do— —do—	Process for making a nitrogen containing organic composition.
81.	145087	19-07-1977	UBE INDUSTRIES LIMITED, 12,32, 1-chome, Nishi-Koumachi, Ube Shiyama Gunchiken, Japan.	Preparation of dialkyl oxalates.
82.	145168	18-01-1977	JOHNSON & JOHNSON, 501 George Streets, New Brunswick, New Jersey, USA.	A stabilized flavoured tooth cleaning article.
83.	145169	28-03-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, No. 8 Horidome Cho, Nihonbashi Chuoku, Tokyo, Japan.	Producing nitrogen containing polysaccharides.
84.	145170	19-04-1977	NORDMARK WERKE GmbH, Hamburg Werk, Ueterren/Holstein in D-2082, Letterson, GFR.	Production of 2-4 diamino-5-benzylpyrimidines.
85.	145172	06-12-1976	C.S.I.R., Rafi Marg, New Delhi.	An electrochemical process for the production of paratoluidine from paranitrotoluidine.
86.	145203	19-11-1976	AMERICAN CYANAMID COMPANY Wayne, New Jersey, U.S.A.	Preparing aryloxy alkylaminobenzole acids and esters thereof.
87.	145225	04-08-1975	DEGUSSA, 9 Weissfranch Strasse, Frankfurt (Main), FRG.	Process for nitriding iron and steel in salt baths and an improved salt path therefor.
88.	145226	29-09-1976	JEROME KATZ, 280 Rhinecliff Drive, Rochester, New York, U.S.A.	A process for scouring desizing and bleaching cotton greige goods.
89.	145228	01-12-1976	1. AKADEMIA ROLNICZO- TECHNICZNA, Olsztyn, Poland 2. AKADEMIA ROLNICZA, UI WOJSKA Polskiego 28, Poznan, Poland	Method for obtaining concentrated proteins from rape seeds.
90.	145245	12-07-1976	DEXTEC METALLURGICAL PTY. LIMITED 119 York Street, Sydney, New South Wales, 2000, Australia.	Electrolytic production of copper from ores and concentrates.
91.	145266	13-08-1975	SACHS SYSTEM TECHNIK GmbH, 827 Schweinfurt am Main Johan George Gademann Strasse 13, FRG.	Apparatus for sterilisation of liquids by mean of anodic oxidation.
92.	145287	26-06-1976	SIMMERING-GRAZ-PAUKER AKTIENGESELLSCHAFT, 32 Mariahilfer Strasse A-1071 Vienna, Austria.	Process for decontaminating digested sludge which contain toxic components of arsenic antimony and mercury.
93.	145289	05-08-1976	SAINT-GOBAIN INDUSTRIES, 62 Boulevard Victor-Hugo, Newilly-Sur-Seine, FRANCE.	Process and apparatus for converting a drawable material into fibres and fibres manufactured thereby.
94.	145296	30-09-1976	CIBA-GEIGY OF INDIA LIMITED, Aarey Road, Goregaon East, Bombay-63.	Process for the manufacture of heterocyclic compounds having hypoglycemic properties.
95.	145313	10-01-1977	F. L. SMIDTH & COMPANY A/S, 77 Vigerslev Alle, DK-2500 Valby, Copenhagen, Denmark.	A method of burning pulverous raw material such as cement raw meal, lime stone of chemically precipitated CaCO <sub>3</sub> or alumina trihydrate in a plant.
96.	145376	28-10-1976	THE BABCOCK & WILCOX COMPANY, 161 East 42nd Street, New York, New York 10017, U. S. A.	Dispenser for gas entrained particles into a fluid.
97.	145409	14-12-1976	ETHICON INC, Somerville, New Jersey, U.S.A.	Absorbable surgical suture and a process for preparing same.
98.	145417	23-10-1976	WESTINGHOUSE ELECTRIC CORPORATION, Westinghouse Building, Gateway Centre, Pittsburgh, Pennsylvania, -15222, U.S.A.	A method of producing homogeneous sintered ZnO non-linear resistors sintered register body obtained thereby and a lightening arrester containing the same.
99.	145420	01-12-1976	CELANESE CORPORATION, 1211 Avenue of the Americas ? Ne York, New York, U.S.A.	A process for preparing polygalactomannan allyl ether compositions.
100.	145439	01-10-1975	FIERRO ESPONJA SA, Arenida, Los Angeles al orient, Martey, N.L. Republic of Mexico.	Gaseous reduction of metal ore.
101.	145468	22-06-1976	S. I. A. P. SOCIETA INDUSTRIA-LE AGGLOMERATIE PRODOTTI PETROLIFERI S. P. A., 117 Corsodel Popolo 30172, Venezia—Mestre, Italy.	Process for producing graphitic agglomerates and agglomerated products obtained by it.

**COMMERCIAL WORKING OF PATENTED INVENTIONS (CHEMICALS LIST NO. XIV AND SUPPLEMENTARY LIST)**

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act 1970, in respect of Calendar year 1979, generally on account of want of requests for licences to worked the patented inventions.

Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name and address of the party	Title of the invention.
1	2	3	4	5
1.	145471	28-12-1976	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U. S. A.	Preparation of benzyl and aryl esters of N-phosphono methyl glycines.
2.	145516	09-09-1977	UNION CARBIDE INDIA LIMITED, 1 Middleton Street, Calcutta-71	Separation of mixture of 3:4 and 2:4 dichlorobenzyl chlorides from reaction product containing same and p-chlorobenzyl chloride.
3.	145547	16-11-1976	RCA CORPORATION, 30 Rockefeller Plaza, New York, New York 10020, U. S. A.	Manufacturing hybrid oxides of silicon for semiconductor-device.
4.	145549	02-12-1974	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U. S. A.	Preparing optically active catalyst.
5.	145550	02-12-1974	Do.	Catalytic asymmetrical hydrogenation of acrylic acid derivatives.
6.	145566	04-03-1977	R. J. REYNOLDS TOBACCO COMPANY, 4th and Main Streets, Winstonalem, North Carolina 27102, U. S. A.	Apparatus to store, supply and recover a condensable compounds used in a processing system for increasing the filling capacity of tobacco.
7.	145599	03-01-1977	TOTH ALUMINUM CORPORATION, 5010 Leroy Johnson Drive, New Orleans 70182, U. S. A.	Improved ore halogenation.
8.	145613	08-12-1976	AMERICAN CYANAMID COMPANY Wayne, New Jersey, U. S. A.	Process for preparing 2,6-dinitro-aniline herbicides.
9.	145617	22-08-1977	OUTOKUMPU OY, Outokumpu, Finland.	Hydrometallurgical process for recovery of zinc, copper and cadmium from their ferrites.
10.	145632	25-01-1977	COMBUSTION ENGINEERING INC., 1000 Prospect Hill Road, Windsor, Connecticut, U. S. A.	A gas scrubber plant.
11.	145667	05-02-1977	C. S. I. R. Rafi Marg, New Delhi, India.	Preparation of 17A-methyl-3B-pyrrolidino-17A-aza D-Homoandrost-5-ene-dimethiodide (Chandonium iodide) (HS-310).
12.	145689	07-03-1977	AMERICAN CAN COMPANY, Americans Lanes Greenwich, Connecticut-06830, U. S. A.	Method of manufacturing a coated metal container and container so produced.
13.	145694	28-09-1977	INTERNATIONAL MINERALS & CHEMICAL CORPORATION, IMC Plaza, Liberty Uille, Illinois, U. S. A.	Benefication of fluorspor ore.
14.	145715	14-03-1977	VIZGAZDALKODASI TUDOMANYOS KUTATO KOZ PONT, 1 Kvassay Jenó ut, Budapest-1095, Hungary.	Process for producing a system with a permanent hydraulic bond of high strength.
15.	145731	29-04-1977	C. S. I. R. Rafi Marg, New Delhi.	An improved process for the preparation of 2, 4, dichlorophenol of more than 98% purity.
16.	145755	07-02-1977	AMERICAN HOME PRODUCTS CORPORATION, 685 Third Avenue, New York, New York 10017, U. S. A.	Preparation of oxanilic acid derivatives.
17.	145765	27-01-1977	TEXACO DEVELOPMENT CORPORATION, 135 East 42nd Street, New York, New York 10017, U. S. A.	Fluidized cracking catalyst regeneration process and apparatus.
18.	145785	22-09-1976	CIBA-GEIGY OF INDIA LIMITED, Aarey Road, Goregaon East, Bombay-400063.	Manufacture of dyestuff preparation.
19.	145843	06-04-1977	C. S. I. R., Rafi Marg, New Delhi.	Separation of n-paraffinic hydrocarbons of carbon range C 12 C25 present in kerosene and light diesel oil fractions by microbial.
20.	145851	07-04-1977	NITTO CHEMICAL INDUSTRY COMPANY LIMITED, NO. 5-1, Marunouchi 1-chome, Chiyodaku, Tokyo, Japan.	Process for producing acrylonitrile.
21.	145905	07-03-1977	JOHN WYETH & BROTHER LIMITED, Huntercombe Lane South, Taplow Maidenhead, Berkshire, England.	Process for preparing indoles.

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22.	145921	21-06-1976	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-300020.	Superfatted detergent bars.
23.	145931	21-08-1976	Do.	Detergent compositions.
24.	145954	10-02-1977	CIBA-GIEGY OF INDIA LIMITED, Aarcy Road, Goregaon East, Bombay-400063.	Manufacturing of fluorescent pigments.
25.	145959	12-10-1976	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Heavy duty fabric washing powder.
26.	146029	05-04-1977	C. S. I. R., Rafi Marg, New Delhi.	A sulphate-recycle process for the preparation of N-p. fertilizers from India rock phosphate.
27.	146030	21-09-1977	AMERICAN HOME PRODUCTS CORPORATION, 685 Third Avenue, New York 10017, U.S.A.	Preparation of non-peptides.
28.	146151	22-03-1977	C. S. I. R., Rafi Marg, New Delhi.	Improved fermentation process for the preparation of acetoin (2, 3-butanolone acetylmethyl carbinol).
29.	146183	21-3-1977	Do.	Production of an electrically conductive paper use as a substrate for applying zinc oxide electrophotographic layers.
30.	146211	01-10-1977	RICHTER GEDEON VEGYESZETI GYAR R. T., 21 Gyomroi U Budapest X, Hungary.	Preparation of hydroxymethyl pyridine esters.
31.	146275	07-04-1977	GULF OIL CORPORATION, Pittsburgh, Pennsylvania, U. S. A.	Preparing carbamyltriazole insecticides.
32.	146276	07-04-1977	Do.	Preparing carbamyltriazole insecticides.
33.	146301	30-11-1977	DAINIPPON JOCHUGIKU KABUSHIKI KAISHA, 2-11 Tosabori-dori, Nishi-ku, Osaka-shi, Osaka-fu, Japan.	Producing isovaleric acid ester derivatives.
SUPPLIMENTARY CHEMICAL LIST				
1.	103129	21-12-1965	N. VPHILIPS GLOEILAMPENFABRIEKEN Emmasingel, Eindhoven, Netherlands.	Red luminiscent substances and luminiscent screen including the same.
2.	107565	19-10-1965	1. LAPORTE TITANIUM LIMITED, Hanover House, 14, Hanover, Square, London W. 2, England, 2. AMERICAN POTASH AND CHEMICAL CORPORATION, 3000 West Sixth Street, Los Angeles, California-09954, U.S.A.	Manufacture of titanium dioxide.
3.	107566	19-10-1965	Do.	Do.
4.	107567	19-10-1965	Do.	Do.
5.	107568	19-10-1965	Do.	Do.
6.	109963	28-03-1967	CHEMICAL SEPARATIONS CORPORATION, Bus Terminal Road, Oak Ridge, Tennessee, U.S.A.	Process for treating crude mineral solutions.
7.	109964	28-03-1967	Do.	Continuous cyclic process for pickling of metal, for regenerating spent pickle liquors and for regenerating an agent employed to regenerate said spent pickle liquor.
8.	111914	11-08-1967	DANO AG, 21 Postgasse, CH-8750, Glarus, Switzerland.	Apparatus for aerobic fermentation of solid organic waste material
9.	119063	29-12-1967	LAPORTE TITANIUM LIMITED, Hanover House, 14 Hanover Square, London W1, England.	Manufacturing titanium dioxide.
10.	115032	29-03-1967	Do.	Heating titanium tetrachloride vapours in the process of manufacturing titanium dioxide.
11.	121645	04-06-1969	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., Carvel Van Bylandt-laan 30, The Hague, The Netherlands.	A process for preparing an ester of a3, 5-dialkyl-4-hydroxy-benzyl alcohol and 1, 3, 5-trialkyl-2, 4, 6, tris (3, 5-dialkyl-4-hydroxy benzyl) benzene prepared therefrom.

1	2	3	4	5
12.	123933	07-11-1969	KOINKLIJKE NEDERLANDSCHE GIST-EN SPIRITUSFABRIEK NV, Watering seweg, Delft, The Netherlands.	An active dried baker's yeast and a process of preparing the same.
13.	125531	02-03-1970	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London, SW1, England.	Catalyst precursor method of making the same and process of methanol synthesis employing a catalyst made by reducing the catalyst precursor.
14.	127978	11-08-1970	Do.	Preparation of Transitional metal composition.
15.	128755	12-10-1970	Do.	Manufacture of 1:1, 1-trichloro-ethane.
16.	129481	03-12-1970	SOCIETE SUCRIERE DE L' ATLANTIQUE (ENGINEERING) S. A., 18 Avenue Matignam, Paris (8 eme) France.	Extracting juice by squeezing fibrous materials of sugarcane bagasse.
17.	129926	13-01-1971	LAPORTE INDUSTRIES LIMITED, Hanover House 14, Hanover Square, London W1R, OBE England.	Process for treating oxide pigments.
18.	130121	01-02-1971	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London, SW1, England.	Treatment of brine.
19.	130361	25-02-1971	Do.	Cooling extruded tubing.
20.	130993	16-04-1971	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London SW1, England.	Glass reinforced polymer composites.
21.	131002	16-04-1971	DR. C. OTTO & COMP. GmbH, Chrstrasse 9, Postfach 1849/1850, 463, Bochum, West Germany	By-product coke oven.
22.	131405	18-05-1971	INCO EUROPE LIMITED, (formerly known as INTERNATIONAL NICKEL LIMITED),/ Thames House, Millbank, London, SW1P 4 QF, England.	Treatment of corrosion-resistant chromium containing alloys.
23.	131852	23-06-1971	IMPERIAL CHEMICAL INDUSTRIES LIMITED Imperial House, Millbank, London SW1, England.	Stripping of coated titanium electrodes for re-coating.
24.	132086	12-07-1971	HALDOR FREDERIK AXEL TOPSOE, Frydenlundsvvej, Vedback, Denmark.	Process for purification of crude methanol.
25.	132627	23-08-1971	ESTABLISHMENT SALGAD, Vaduz, Liechtenstein.	Explosive device.
26.	132847	11-07-1972	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi.	Preparation of sodium bicarbonate.
27.	133168	07-10-1971	Dr. C. OTTO & COMP. GmbH Bochum, West Germany.	Control means for the Introduction of gaseous combustion agent in relation to regeneratively heated coke oven batteries.
28.	133233	14-10-1971	MEAD CORPORATION, Tulbolt Tower Dayton, Ohio, U. S. A.	Reduction oxidation process.
29.	134393	25-01-1972	LAPORTE INDUSTRIES LIMITED, Hanover House, 14, Hanover Square, London W1R OBE, England.	Improvements in beneficiation of ores.
30.	135044	24-03-1972	1. HEINRICH PANNENECKER, 53 Bonn-Holzlar, Bergstrasse 23, 2. RUDOLF PLATE, 53 Benn-Ipendorf, Quellenweg, FRG.	Tubular film blow process for thermoplastic material having hot tack.
31.	135134	03-04-1972	LAPORTE INDUSTRIES LIMITED Hanover House, 14 Hanover Square, London W1R OBE, England.	Process of beneficiation of elmenite ores.
32.	135878	20-06-1972	INCO EUROPE LIMITED (formerly known as INTERNATIONAL NICKEL LIMITED), Thames House, Millbank, London SW1P 4QF, England.	Method of obtaining a coloured chromium containing alloy.
33.	137114	13-10-1972	ELEKTRO-THERMIT GmbH, Salkenbergweg, 14, 43 Essen, West Germany.	Aluminothemic intermedial cast-welding of rails.
34.	137507	20-03-1974	HINDUSTAN LEVER LIMITED, Hinustan Lever House, 165/166, Backbay Reclamation, Bombay-400020.	Dehydroxylation of hardened castor oil.

1	2	3	4	5
35.	137859	29-05-1973	C. S. I. R., Rafi Marg, New Delhi.	The transfer of letters/numbers/designs on to metal by electrochemical techniques.
36.	138115	03-11-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABU SHIKI KAISHA, 2-1 Chome, Ote-Machi, Chiyodaku, Tokyo-to, Japan.	Making cement slinker by burning raw materials.
37.	138628	27-03-1973	DR. C. OTTO & COMP. GmbH 4630 Bochum, West Germany.	Regeneratively heated coke oven.
38.	139109	08-05-1973	Do.	Gas collecting device for coke oven battery.
39.	139610	02-08-1973	NRM CORPORATION, 47 West Exchange Street, Akron, Ohio 44308, USA.	Severing tire ply stock and like.
40.	139617	19-07-1973	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London SW1, England.	Manufacture of phosphoric acid derivatives.
41.	140349	09-11-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABU-SHIKI KAISHA, 2-12, Chome, Ote-machi, Chiyodaku, Tokyo-to, Japan.	Suspension type preheating systems for powdery raw materials.
42.	140480	27-02-1974	BELOIT CORPORATION, 1st Lomevence Avenue Beloit, Wisconsin 53511, U. S. A.	Pulp refiner element
43.	140734	03-08-1973	CLUPAK INC., 530 Fifth Avenue, New York, State of New York 10036, U. S. A.,	Straw paper and process of making the same.
44.	140824	25-06-1974	ROBERT BOSCH GmbH, Postfach 50, 7 Stuttgart, 1, FRG.	Producing an activated $\alpha$ -alumina.
45.	141031	15-01-1976	INTEROX CHEMICALS LIMITED, Hanover House, 14 Hanover Square, London W1R, OBE, England.	Proces for oxidation of an alkene by reaction with a per acid.
46.	141434	24-04-1974	DR. C. OTTO & COMP. GmbH, Bochum, West Germany.	Coke oven door.
47.	141854	11-07-1974	DR. C. OTTO & CAMP GmbH, Bochum, West Germany.	Coke side shed for coke ovens.
48.	141921	09-04-1975	Do.	Charging car for coke ovens.
49.	142374	11-11-1974	Do.	Removing ammonia from gases like coke oven gases.
50.	142394	24-04-1974	Do.	Removing gaseous ammonia hydrogen sulphide and hydrogen cyanide forming part of gas from coke plants.
51.	142417	24-04-1974	Do.	Removal of ammonia hydrogen sulphide and hydrocyanic acid from coke oven Gas.
52.	142465	12-07-1974	Do.	Horizontal coke oven having cross regenerators.
53.	142312	11-11-1974	Do.	Flue gas collector main or regeneratively heated coke ovens.
54.	142786	25-09-1974	N. V. PHILIPS' GLOBILAMPENFABRIEKEN, Emmasingel, Eindhoven, Netherlands.	Method of enveloping articles with thermoplastic strip material and articles so produced.
55.	142983	27-11-1974	DR. C. OTTO & COMP, GmbH, Bochum, West Germany.	Coke oven battery.
56.	143095	31-05-1976	Do.	Process for treating the gas-main, washing liquid arising in coke ovens.
57.	143176	21-08-1974	Do.	Processing the gas main flushing liquor yielded in coke ovens.
58.	143183	12-07-1976	Do.	Battery of coke ovens with regenerative heat exchange.
59.	143210	01-02-1975	Do.	Coke oven battery adapted for regenerative heating with lean gas.



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60.	143237	16-10-1976	OLIN CORPORATION, 91 Shelton Avenue, New Haven, Connecticut 06504, U. S. A.	Weld arresting compositions.
61.	143321	12-08-1976	JOHANNES J' MARTIN, 248, Leopoldstrasse, 8000 Munich 40, West Germany.	Charging device for large furnaces.
62.	143391	11-11-1974	DR. C. OTTO & COMP. GmbH Bochum, West Germany.	Process for the isolation of crude benzol and naphthalene from the washing oil formed during the recovery of naphthalene and/or benzol from coke oven gas.
63.	143499	01-02-1975	Do.	Underjet coke oven batteries.
64.	143868	17-06-1975	CELANESE CORPORATION, 1211 Avenue of the Americas, New York, New York, U. S. A.	Improved polyethylene terephthalate film.
65.	144063	11-06-1974	UNION CARBIDE CORPORATION, 270, Park Avenue, New York, State of New York, 10017, U. S. A.	Catalytic process for the preparation of polyhydric alcohols and derivatives thereof.
66.	144113	12-04-1977	1. POLITECHNIKA GDANSKA UL. Majakowskiego 11/12, Gdansk, Poland, 2. INSTYTUT PRZEMYSŁU FARMACEUTYCZNEGO, 41, Rydygiera 8, Warszawa, Poland.	Preparing Niglycosyl derivatives of polyene microlide and the salts thereof.
67.	144118	11-07-1975	DR. C. OTTO & COMP. GmbH, Bochum, West Germany.	Slag bath generator adapted to operate under pressure.
68.	144179	21-08-1974	DR. C. OTTO & COMP. GmbH, Bochum, West Germany.	Preparing gases free of ammonia, hydrogen sulphide and hydrocyanic acid from gases.
69.	144385	10-03-1976	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, U. S. A.	Preparation of low and medium density ethylene polymer in fluid bed reactor.
70.	144410	07-08-1976	DR. C. OTTO & COMP. GmbH, Bochum, West Germany.	Production of cokes using battery of coke ovens with regenerative charge of draft.
71.	144745	14-02-1977	SID RICHARDSON CARBON AND GASOLINE COMPANY, 31st Floor, Fort Worth, Texas 76102, U. S. A.	Production of carbon black.
72.	144829	29-03-1977	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U. S. A.	Polymerising a monomer charge.
73.	144977	31-05-1976	DR. C. OTTO & COMP. GmbH, Bochum, West Germany.	Coke oven chamber battery.
74.	145616	04-08-1977	NITTO BOSEKI COMPANY LIMITED, No. 1, Gonome-Higashi, Fukushima-shi, Fukushima, Japan.	Method and apparatus for manufacturing glass fibres using deflectable air curtain.
75.	145272	30-11-1976	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, U.S.A.	Preparing carbamate carbamoyl fluoride compounds.
76.	145304	27-12-1976	C. S. I. R., Rafi Marg, New Delhi.	Process for the electrochemical preparation of aryl alkylamines such as benzylamines and beta-phenylethylamine.
77.	145462	24-07-1976	J. M. HUBER CORPORATION, Navesink and River Road, Locust, New Jersey, U. S. A.	Production of crystalline base exchange aluminosilicate material.
78.	146042	04-11-1976	THE B. F. GOODRICH COMPANY, 277 Park Avenue, New York, New York 10017, U.S.A.	Latex modified portland cement composition for use in polymerization reactors for the decrease or removal of the build-up of undesirable deposits of vinyl halide polymer during the polymerization.
79.	146139	25-06-1976	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U. S. A.	Preparation of N-amino Sulfonyl Carbamate Compounds.

**COMMERCIAL WORKING OF PATENTED INVENTIONS (MECHANICAL & GENERAL LIST NO. VII  
AND MISCELLANEOUS LIST)**

The following Patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar Year 1979, generally on account of want of requests for licences to work the Patented invention.

Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name and address of the party	Title of the invention
1	2	3	4	5
1.	144228	31-08-1976	COMBUSTION ENGINEERING INC, 1000 Prospect Hill Road, Windsor, Connecticut, U. S. A.	System for extraction heat from combustion gases exhausted from furnaces of steam generator.
2.	144235	15-04-1976	SHANKAR GULNAGOUDA PATIL, C/o. N. A. Patil, Shlggaon, Dist. Dharwar, Karnataka, India.	Collapsible furniture.
3.	144236	28-04-1976	CARBORUNDIUM UNIVERSAL LIMITED, Tiruvottiyur, Madras-19, T. N., India.	Making a grinding and polishing hard wheel.
4.	144259	23-11-1974	ALBERTO KLING, Am Hugel 14, 8136 Percha, FRG.	Rotor means for an aircraft.
5.	144274	11-03-1977	COMBUSTION ENGINEERING INC, Windsor, Connecticut, U. S. A.	Bailer furnace design for pulverised coal and stocker firing.
6.	144306	16-07-1975	DANA CORPORATION, 4500 Dorr Street, City/ of Toledo, Ohio, U. S. A.	Vehicle speed control system.
7.	144312	06-08-1976	GENERAL ELECTRIC COMPANY, 1 River Road, Schenactady, New York, USA.	Shaft bearing and seal for butterfly valves.
8.	144348	16-11-1971	BINDU GANDHI, 17 Camac Street, Calcutta-W. B., India.	Compacting apparatus.
9.	144350	24-08-1976	N. P. KINARIWALA PRIVATE LIMITED, 148 Mukti Maidan, Maninagar, Ahmedabad, Gujarat, India.	Grooved drum.
10.	144437	19-06-1975	GRASSO'S KONINKLIJKE MACHINEN-FABRIEKEN N. V., Parallelweg 7, S-Hertogenbosch, The Netherlands	Machininga gear-wheel for a rotary displacement machine.
11.	144450	15-11-1974	PABLO CORTINA ORTEGA, Sierra Santa Rosa, 64 Maxico 10 D. F., Mexico.	Erecting single or multiple storey concrete columnless buildings.
12.	144453	12-08-1975	THE CROSS COMPANY, Fourteen Mile Road, Eraser Michigan, U. S. A.	Machining centre and machining work pieces.
13.	144461	26-06-1975	PARKS CRAMER COMPANY, P. B. 444, Fitchburg, Massachusetts, U. S. A.	Control arrangement for yarn piecing apparatus.
14.	144484	14-11-1977	BINDU GANDHI, 17 Camac Street, Calcutta, India.	Texturizing apparatus.
15.	144485	14-11-1977	Do.	Do.
16.	144508	17-06-1976	AYYIASWAMY VAJJIRAVEL D. M. M. S., 62/2 Muni Naicken Lane, Raja Street, Coimbatore, Tamil Nadu, India.	Vehicle.
17.	144539	14-11-1975	EMHART INDUSTRIES INC., 426 Colt Highway, Farmington, Connecticut, U. S. A.	Hydraulically cushioning the motion of reciprocating means in glass forming machines.
18.	144561	18-08-1976	JOHANNES JOSEF MARTIN, 248 Leopoldstrasse 8000 Mucich 40, FRG.	Slag removing apparatus for large furnaces.
19.	144626	28-03-1977	THE AIR PREHEATER COMPANY INC, Andover Road, Welbville, New York, USA.	Regenerative heat exchange apparatus.
20.	144652	08-10-1976	ETHICON INC., Somerville, New Jersey, U.S.A.	Rackage for armed suture.
21.	144659	09-07-1976	AKIRA NADAGUCHI, 5651 Fuji Sawa, Fujisawa shi, Kanagawa Kan, Japan.	Solar collector.
22.	144672	25-08-1976	THE BABCOCK AND WILCOX COMPANY, 161 East 42nd Street, New York, U.S.A.	Steam and water drums with viewing device.
23.	144681	08-08-1975	ETHICON INC, Somerville, New Jersey, U. S. A.	Needle suture mounting and dispensing device and package.

1	2	3	4	5
24.	144684	09-11-1976	THE AIR PREHEATER COMPANY INC., Andover Road, Wellsville, New York, U.S.A.	Rotary regenerative heat exchange apparatus.
25.	144694	19-07-1976	G. WOLF JR. KOMMAVODIT GESELLSCHAFT 877 Hattinger Strasse, 463 Bochum Linden, FRG.	Oven chamber door for a coke oven.
26.	144713	09-12-1976	UNITED TECHNOLOGIES CORPORATION, Financial Plaza, Hartford, Connecticut, U.S.A.	A rotor assembly for gas turbine engine and making the blade support disc for the rotor assembly.
27.	144727	02-04-1976	YAO CHEN TSAI, No. 10, Lane 177, Psi Hsing Street, Chia I, Taiwan Republic of China.	Solar powered distilling device.
28.	144750	20-08-1976	VEREINIGTE ÖSTERREICHISCHE EISEN- UND STAHLWERKE ALPINE MONTAN AKTIENGESELLSCHAFT, 1011, Vienna, Friedrichstrasse 4, Austria.	Pressure relief valve for hydraulic mine supporting element.
29.	144754	12-02-1976	EATON CORPORATION, Axle Division, Durha- mway, Ayoliff Industrial Estate, Nr Darlington County, Durham, England.	Drive axle system useable in 6×6 vehicles.
30.	144769	23-07-1976	NYLEX CORPORATION LIMITED, 10 Queens Road, Melbourne, State of Victoria, Com- monwealth of Australia.	Games hall constructed of cellular plas- tic material.
31.	144793	17-07-1976	PLAN-TEK, A/s, Skippergaten 9, Oslo 1, Nor- way.	Building construction.
32.	144800	02-06-1976	MATHER & PLATT LIMITED, Park Works, Manchester, England.	Fire fighting installation comprising of Control valve.
33.	144804	15-07-1977	STEELWORTH LIMITED, 17 Ganesh Chandra Avenue, Calcutta, W. B., India.	Device for paddy & similar agricultural materials.
34.	144811	20-09-1976	KRAFTWERKE UNION AG, Mulheim (Ruhr) 433, Mulheim (Ruhr) Wiesen Str. 35, FRG.	Monitoring mechanical torque.
35.	14 4834	22-01-1976	EVOLUTION S. A., CH 9400, Rorschach/SG, Feldwuhlestrasse 29, Switzerland.	Yarn winding apparatus.
36.	144855	30-05-1975	A. EHRENREICH & CIE, Hansaallec 190, D- 4000, Dusseldorf-Oberkassel, West Germany.	Hemispherical shells for ball joints.
37.	144888	08-07-1975	F. L. SMIDTH & COMPANY A/S, 77 Vigerslev Alle, DK-2500, Copenhagen, Valby, Denmark.	Rotary packer for filling sacks.
38.	144900	11-03-1976	SATAKE ENGINEERING COMPANY LIM- TED, 19-10, Ueno-1, Chome, Toe to ku, Tokyo, Japan.	Roll type huller.
39.	144905	20-12-1976	MANFRED STREICHER, Bahuhofstrasse 22, Beilstein, FRG.	Displacement pump.
40.	144906	30-05-1977	H. P. MATHRANI, 17 Camac Street, Calcutta, West Bengal, India.	Precast hollow block.
41.	144910	22-10-1975	JOHANNES ZIMMER, Ebentalerstrasse 133, 9020 Klagenfurt, Austria.	Squegee device.
42.	144936	20-09-1976	SAINT-GOBAIN INDUSTRIES, 62 Boulevard Victor Hugo, Neuilly-sur-Seine, France.	Treating elongate work pieces.
43.	144939	08-12-1976	COMBUSTION ENGINEERING INC. Windsor U. S. A.	Spacer for maintaining predetermined distance between tubes in boilers, heat exchangers, reactors and like.
44.	144942	25-09-1976	MRS. MEHRUN KHAN, M/s. Famous Tailoring Material Threads, Husain Saheb Street, Arundelpet, Vijaywada, Andhra Pradesh, India.	Fastening device for garments.
45.	144968	25-10-1976	R. A. LISTER & COMPANY LIMITED, Long- street, Dursley, Gloucestershire, England.	Piston for an inverted combustion en- gines.
46.	144996	03-02-1976	IMODCO INC, 10960 Wilshire Boulevard, Suite 428, Los Angeles, California, U. S. A.	Mooring a ship to the top of rigid column or lower.
47.	145032	13-09-1976	C. S. I. R., Rafi Marg, New Delhi, India.	A sub-soil deformer.
48.	145049	13-10-1977	TSURMI SODA COMPANY LIMITED, 7 Suchi- rocho-I-chome, Tsurumi-ku, Yokohamashi, Konagawa, Ken, Japan.	Apparatus for expanding destroying and softening structures of animals and vegetables fibrous material.

1	2	3	4	5
49.	145057	22-01-1976	JOHANNES ZIMMER, Klagenfurt 9020, Austria.	Rotary printing machine.
50.	145065	30-08-1974	O & K ORENSTEN & KOPPEL AG WERKE LUBECK, Einsiedelstrasse 6, Lubeck, FRG.	Double jib crane.
51.	145088	20-12-1977	1. HOYA TAKESHI, Bushidanchi 12-101, Ozaza Bushi, Irumashi, Saitamaken, Japan, 2. TUJI TADASHI 5-41-26, Honmachi Koganeishi, Tokyo, Japan.	Double acting filter press.
52.	145171	01-06-1977	D. SWAROSKI & COMPANY, Glasschleiferi, KG, A 6112 Wattens/Tirol, Osterrelch, Austria.	Glass mirror mat and method for its production.
53.	145192	21-03-1975	LEIF PERSSON, Harley Bank South, Victoria Road, Todmorden, Lancs, England.	Device for holding tube shaped objects.
54.	145199	15-05-1976	EMHART INDUSTRIES INC, 426 Colt Highway, Farmington, Connecticut, U. S. A.	Glassware, forming apparatus for cooling a blank mould used for the formation of a glass parisor.
55.	145242	30-03-1976	SATAKE ENGINEERING COMPANY LIMITED 19-10 Ueno-I chomo, Taito-ku, Tokyo, Japan.	Fanning mill.
56.	145260	31-01-1976	GRASSO'S KONINKLIJKE MASCHINEN FABRIEKAN N. V., Parallelweg 7, S-Hertogenbosch, The Netherlands.	Rotary displacement compressor with capacity control.
57.	145311	31-08-1976	PREFORMED LINE PRODUCTS COMPANY, 660 Beta drive, Cleveland, Ohio, USA.	Moisture proof cable splice enclosure.
58.	145353	03-02-1976	JAN EDWARD PERSSON, Henriksdalsringen 17 V, S-13100, Nacka, Sweden.	Pump intended for pumping a liquid medium.
59.	145354	10-03-1976	SINGLE BUOY MOORINGS INC., Fribourg 12, The Abbebovet, Switzerland.	Flooding structures.
60.	145388	29-06-1976	HOOGO VENS JMUULDEN B. V., Wenckebachstraat, Ijmuiden, The Netherlands.	Electrically driven apparatus for operating a railway point and a railway point incorporating such apparatus.
61.	145397	27-05-1977	NATIONAL INSTITUTE OF DESIGN, 11A Rouse Avenue, New Delhi, India.	A perspective drafter.
62.	145407	23-04-1976	LACREX BREVETTI S. A., Via G. Motta 6648 Minusio, Switzerland.	A tool for turning screw heads, nuts and the like.
63.	145428	23-09-1976	WESTINGHOUSE AIR BRAKE COMPANY, Three Gateway Center, Pittsburgh, Pennsylvania, U. S. A.	A locomotive brake control apparatus.
64.	145535	15-05-1976	DEANE HILISMAN, 870 El CHOROOWAY, Sacramento, California, U. S. A.	Measuring respiratory air flow of a patient and displaying it together with an optimised respiratory air flow.
65.	145541	12-01-1977	HRBANS LAL MALHOTRA & SONS LIMITED 226/2 Acharya Jagadish Chandra Bose Road, Calcutta, India.	A method of obtaining a razor blade having a coating of refractory material.
66.	145542	12-01-1977	Do.	A razor blade.
67.	145567	15-03-1977	ACI TECHNICAL CENTRE PRY. LTD., 813 Dowling Street, Waterloo, New South Wales, Australia.	Method of producing reinforced clay based Articles and the Articles produced thereby.
68.	145610	23-02-1977	GEORGE DEVADUTTA BUELL, C/o. M. M. ANSAR, 204 Angappa Nalcken Street, Madras, Tamil Nadu, India.	Disposable filter proof bags or containers.
69.	145641	04-12-1976	WILTSHIRE CUTLERY COMPANY PROPRIETARY LIMITED, 36-38 Alber Road, South Melbourne, Victoria, Australia.	Knife sharpener.
70.	145654	03-09-1977	HARBANS LAL MALHOTRA & SONS LIMITED, 226/2 Acharya Jagdish Bose Road, Calcutta, India.	Safety razor.
71.	145656	02-09-1976	C. S. I. R. New Delhi, India.	A vacuum pump for obtaining oil free vacuum for air sampling in air pollution studies.
72.	145699	16-08-1976	VEREINIGTE OESTERREICHISCHE EISEN-UND STAHLWERKE ALPINE MONTAN AKTIENGESSELLSCHAFT, 1011 Vienna, Friedrichstrasse, 4, Austria.	Device for guying a movable cutting machine.

1	2	3	4	5
73.	145702	04-10-1976	F. L. SWIDTH & COMPANY A/S, Copenhagen, Denmark.	Kiln plant.
74.	145718	01-10-1975	MASCHINENFABRIK RIETER AG, Winterthur, Switzerland.	An open end spinning machine with a plurality of adjacent exchangeable spinning units.
75.	145724	25-10-1976	R. A. LISTER & COMPANY LIMITED, Long Street, Dursely, Gloucestershire, England.	A liquid scaling device.
76.	145744	08-10-1975	MCNEIL CORPORATION 96 East Crogier Street, Aknen Summit, County Ohio, U. S. A.	Tyre curing press centre mechanism.
77.	145757	30-08-1974	O & K ORENSTEN & KOPPEL AG WERKE LUBECK, Lubeck, FRG.	Double jib crane.
78.	145761	07-12-1976	C. S. I. R., New Delhi, India.	Smokemeter for measurement of smoke density of exhaust gases of diesel vehicles.
79.	145787	10-02-1976	GREER HYDRAULICS INC, 5930 W. Jefferson Boulevard, Los Angeles, California, U.S.A.	Pressure vessel and method of forming same.
80.	145799	17-12-1976	C. S. I. R., New Delhi, India.	Solarocrat power unit.
81.	145808	02-02-1978	SHRIHARI NAGESH LELE, 20/2 Kali Lane, Calcutta, West Bengal, India.	A hydraulic cushioning apparatus for an automatic pneumatic plough of scraper.
82.	145816	02-02-1978	Do.	Pneumatic plough or scraper.
83.	145825	22-05-1976	LACREX BREVETTI SA, Via G. Motta 6648, Minusio, Switzerland.	Manually operated adjustable/slidable universal wrench.
84.	145830	21-05-1976	SINGLE BUOY MOORINGS INC, Fribourg 12, Rue Abbechovet, Switzerland.	Single point mooring buoy
5 8 .	145841	19-11-1975	UNITED KINGDOM ATOMIC ENERGY AUTHORITY, Charles II Street, London SW1, England.	Stirling cycle heat engines.
86.	145844	04-11-1976	1. COLIN DOUGLAS WEST, Aughton, Faringdon Road, East Challow, Wantage, Oxfordshire England, and 2. JOHN CHRISTOPHER HOWARD GEISOW, 94, Spring Road, Abingdon, Oxfordshire, England.	Stirling cycle engines.
87.	145859	22-09-1975	GREER HYDRAULICS INC; 5930 W. Joeffer-son Bluel, Los Angeles, California, U.S.A.	Pressure vessels.
88.	145860	21-11-1975	PREFORMED LINE PRODUCTS COMPANY, 660 Beta Drive Cleveland, Ohio, USA.	Water proof cable splice enclosure.
89.	145904	11-10-1976	VEREINIGT OSTERRICHISCHE EISEN-UND STAHLWERKE ALPINE MONTAN AG, Vienna, Austria.	Means for anchoring a movable mineral mining machine.
90.	145978	08-10-1976	MASCHINENFABRIK RIETER AG, Winterthur, Switzerland.	Apparatus for sensing pressure difference in a fibre.
91.	145986	19-03-1977	PALITEX-PROJECT COMPANY GmbH, Postfach 2228, 4150 Krefeld, West Germany.	Two-for-one twisting spindles.
92.	145993	04-08-1977	NITTO BOSEKI COMPANY LIMITED, No. 1 Gonome-Higashi, Fukushima-shi, Fukushima, Japan.	Method and apparatus for draw forming of glass fibres.
93.	146074	29-12-1976	DOWTY HYDRAULIC UNITS LIMITED, Arle Court, Cheltenham, England.	A railway wagon speed control device.
94.	146101	25-11-1976	MASCHINENFABRIK RIETER AG, Winterthur, Switzerland.	Apparatus for supplying spinning preparatory machines with cans.
95.	146121	12-05-1977	UDAY TEWARI, Shanti Niketan, 51 Shivaji Housing Society, Poona, Maharashtra State, India.	Micro containers for storing biological liquids.
96.	146140	04-06-1976	FUJI-TOKUKI COMPANY LIMITED, 1217 Hayashi-cho, Takamatsu-shi, Kagawaken, Japan.	Oil lubricating device.
97.	146160	15-03-1977	DR. C. OTTO & COMP GmbH, Bochum, West Germany.	Apparatus for cleaning the doors of cooking ovens.

1	2	3	4	5
98.	146199	11-03-1977	MATHER & PLATT LIMITED, Park Works, Manchester, England.	Heart sensitive release device.
99.	146227	01-04-1977	CHUBB FIRE SECURITY LIMITED, Pyrene House, Sunbury-on-Thames, Middlesex, England.	Fire fighting compositions.
100.	146228	05-04-1977	USS ENGINEERS AND CONSULTANTS INC, 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Method of repairing damaged ingot moulds handling lugs.
101.	146234	15-02-1977	CHICAGO PNEUMATIC TOOL COMPANY, 6-East 44th Street, New York, N.Y; U.S.A.	Air pulse noise Damper for a pneumatic tool.
102.	146261	09-03-1976	CATERPILLAR TRACTOR COMPANY, 100 N. E. Adams Street, Peoria, Illinois, U.S.A.	Pneumatic percussion tool having a vibration dampered handle.
103.	146316	02-06-1976	EMHART INDUSTRIES INC; Farmington, Comecticut, U.S.A.	Cylinder and piston assemblies in glass-ware forming apparatus.
104.	146328	30-04-1977	C. S. I. R., New Delhi, India.	Device for depositing homogeneous and PIN hole free films of dielectric materials on substrates.
105.	146363	30-09-1977	TESA S. A. Rue Bugnon 38, 1020 Renene, Switzerland.	Micrometer for interior or internal measurement.
106.	146417	23-04-1977	UOP INC; 1 UOP Plaza, Algonquin & Mt. Prospects Road, Des Plaines, Illinois, U.S.A.	Heat transfer tube and method of making same.
MISCELLANEOUS LIST				
1.	111328	30-06-1967	INSTITUT FRANCAIS DU PETROLE, DES CARBURANTS ET LUBRIFIANTS, 1 & 4, Avenue de Bois-Preau, 92 Rueil Malmaison, France.	Spark generator for seismic prospecting.
2.	111749	30-6-1967	CATERPILLAR TRACTOR. Co., Peoria, Illinois, United State of America.	Spark generator for Seismic prospecting.
3.	111793	1-8-1967	N.V. PHILIPS', GLOEILAMPENFABRIEKEN, Emmasingel, Eindhoven, Netherlands.	Materials for magnetic cores and magnetic cores using the same.
4.	119420	15-1-1969	F.L. SMIDTH & CO., A/5, 77 Vigerslev Alle, Valby Copenhagen, Denmark.	Apparatus for grinding mineral material.
5.	129042	28-10-1970	SOCIETE NATIONALE ELF AQUITAINE (Production) Tour Aquitaine, 92-Coubeviuem France.	Device for measuring the amplitude of a seismic signal.
6.	131604	4-6-1971	N.V. PHILIP'S GF. Emmasingel, Netherlands.	Method of manufacturing magnet cores consisting of a soft magnetic ferrite and magnetic cores manufactured by this method.
7.	132746	1-9-1971	—do—	Improvements in ferrite cores.
8.	134451	1-2-1972	SOCIETE NATIONALE ELF AQUITAINE (Production) Tour Aquitaine 92, France.	Apparatus for seismic exploration.
9.	134846	6-3-1972	OMNICO SYSTEMS INTERNATIONAL INC, 8050 Florence Avenue, Downey, California, U.S.A.	Prefabricated building construction.
10.	136912	14-6-1972	SOCIETE NATIONALE ELF AQUITAINE (Production), 92 Courbevoie, France.	An arrangement for the seismic exploration of a medium such as earth by transmitting there into mechanical energy signals.
11.	137120	5-5-1973	AG. FR. METTLER'S SOEHNE 6415 Arth, Switzerland.	Apparatus for singeing threads.
12.	138590	2-3-1973	THE ELECTRIC ACTUATOR COMPANY LIMITED, Bolling Road, Bradford 4, Country of York, England.	Electric actuators.
13.	139493	10-12-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Light activated lateral thyristor A.C. Switch.
14.	139498	26-6-1974	SIMON CARVES LIMITED, P.B.31, Stockport, Cheshire, England.	A device for facilitating the discharge of solid particulate material from a hopper.

1	2	3	4	5
15.	139730	10-1-1974	COMLINE ENGINE COMPANY INC. 1999 fifth Avenue Columbus, Indiana, USA.	Fuel injector.
16.	139799	19-7-1973	ETABLISSEMENT SALGAD, Vadvg. Liechtenstein.	Light mortar for fin-stabilized projectiles.
17.	140131	28-6-1973	WESTINGHOUSE ELECTRIC CORPORATION Pittsburgh, Pennsylvania, USA.	Dielectric fluids for electrical apparatus.
18.	140227	5-12-1974	UNITED AIRCRAFT CORPORATION, 400 Main Street, East Hart Ford, Connecticut, U.S.A.	Fuel cell electrode.
19.	140351	15-5-1974	RHONE-PROGIL S.A. 25 Quai-PAUL-Doumer, Courbevoie, France	Making porous diaphragms and diaphragms so obtained.
20.	140415	4-12-1973	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA. 1-8, Horidome-Cho, Nihonbashi, Chuoku, Tokyo, Japan.	Multiple vertical diaphragm type electrolytic cell for producing caustic soda.
21.	140422	31-5-1973	THORN ELECTRICAL INDUSTRIES LIMITED, Thor House, Upper Saint Martin's Lane, London, England.	Tungston-Halogen cycle electric incandescent lamps.
22.	140672	16-10-1973	SIEMENS AG., Berlin and Munich, FRG.	Process for the permanent polarization of piezo-electric material..
23.	141057	27-12-1973	GOULD INC, 1110 Highway, 110, Mendota Heights, Minnesota, USA.	Making a lead-acid storage battery and the battery itself capable of activation by the addition of electrolyte.
24.	141692	21-5-1974	WESTINGHOUSE ELECTRIC CORPORATION Pittsburgh, Pennsylvania, USA.	Fail-safe Optically coupled logic networks.
25.	141767	2-9-1974	—do—	Molded magnetic cores utilizing cut steel particles.
26.	141793	22-10-1974	ELKEM SPIGERVERKET A/s. Middle thungate 27, P.B.5430, Oslo 3, Norway.	Electric smelting furnace.
27.	142599	21-5-1972	SOCIETE NATIONALE ELF AQUITAINE (Production) Tour Aquitain-La Defence-92 Durbevoie, France.	Apparatus for recording in digital.
28.	142817	11-11-1975	WILL CLARKE ENGLAND, 7310 Eastscree Drive Austin, Texas, USA.	A multirotary-energy conversion valve.
29.	142937	10-6-1974	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, USA.	A high voltage electrical device incorporating epoxy anhydride preregs.
30.	143426	15-9-1975	MODERN PRODUCTION, Akerby Skola, Uppsala, Sweden.	An electrically driven vehicle.
31.	143539	11-5-1976	W.S. INSULATORS OF INDIA LTD. 'Dhun Building', 175/1, Mount Rd., T.N. India.	Surge diverters or lightning arrestors.
32.	143573	24-7-1975	SIEMENS AGI, Berlin and Munich, West Germany.	A drive device for a switch.
33.	143648	20-2-1975	A/s ARDAL OG SUNNDAL VERK, Sorkeddaisveen 6 Oslo 3, Norway.	Device for moulding a 'green' blocks or electrodes for the manufacture of anode and cathode carbons for the smelting industries.
34.	143740	21-2-1976	AJIT KUMAR BHATTACHARJYA, Block No. 9/5, Citizen's Co-op Housing Society, 103 Manicktola Main Road, Calcutta-54, West Bengal, India.	Improved rotating centre.
35.	143828	22-1-1976	UNITED TECHNOLOGIES CORPORATION, Financial Plaza-Hartford, Connecticut, United State of America.	Pressurised fuel cell power plant.
36.	143932	16-2-1976	A.K. BHATTACHARJYA, Calcutta, West Bengal, India	A commutator such as employed in an automobile dynamo and like dynamo. and a method of manufacturing thereof
37.	144055	12-8-1975	EGYESYLT IZZOLAMPA ES VILLAMOS-SAGI RESZVEBYTARSASAG, Vacut 77, 1340 Budapest, Hungary.	High pressure electric discharge tube with ceramic or crystal envelop operable in the open air.
38.	144193	6-10-1975	JOHANNES ZIMMER, Ebentalerstrasse 133, Klagenfurt, Austria.	Device for treating a web material.

1.	2.	3.	4.	5.
39.	144361	7-1-1975	N.V PHILIPS GB' Emmasingel, Netherlands.	Push button for mechanical preselection tuning.
40.	144622	3-7-1976	C. S. I. R., New Delhi, India.	Method for recombination of gases evolved during the over charging processes back into water in sealed lead-acid storage cells and batteries.
41.	144788	29-11-1975	OCE VAN DER GRINTEN N. V. Venlo, Netherlands.	Profiled pressing roller for sheet and web like material transport and a device utilizing the roller and a device for the unilateral application of a layer of liquid on a sheet.
42.	145358	22-7-1976	CENTRALNY OSRODEK PROJEKOWO-KONSTRUKCYJNY MASZYN GORNICZYCK "KOMAG" PSZCZYNAKA Str. 37, Gliwice, Poland.	Method of separation of a mixture of mineral grains in an aqueous medium and device for this material.
43.	145749	2-4-1976	TRIBOTECH, 1650 Broadway, Redwood City, California, USA.	Bearing Mount.
44.	145958	5-6-1975	JUAN HAENER 8215 Harton place, San Diego, California, USA.	Building construction assembly and interlocking hollow cement concrete blocks therefor.
45.	146968	2-2-1978	SHRIHARI NAGESH LELE 20/2, Kali Lane, Calcutta, West Bengal, India.	An electronic speed control system for the motor of a hydraulically coupled centrifugal machine.
46.	146969	2-2-1978	—do—	Anti wobbling device for hydraulically coupled centrifugal machine.
47.	147092	16-12-1977	THIRUVALI RAMANUJAM SUNDARARAJAN, 15 II cross Street, Truspuram, Kodambakkam, Madras-24, India.	Electric Lighter.

#### PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.	Title of the invention
141366 (12.03.75)	Pyrido method for preparing 8-substituted 2-amino-5-oxo-5, 8-dihydro pyrido-[2, 3-d] pyrimidine-6-carboxylic acid.
141790 (25.03.74)	Improvements in or relating to the manufacture of triphenyl phosphat from phenol and phosphorous oxychloride.
142033 (14.08.75)	Process of preparation of insecticidal composition.
142034 (18.08.75)	Process of preparation of insecticidal compositions.
142077 (14.12.76)	Process for the preparation of anti-tumorogenic substrates.
142161 (20.11.74)	Process of producing methanol.
142167 (03.10.78)	Manufacture of 1, 2-dimethyl-3, 5-diphenylpyrazolium methylsulfate.
142217 (31.05.75)	Process for preparing a soluble tea product.
142254 (10.10.75)	Improvements in or relating to the production of novel decapeptides.
142258 (03.05.73)	A process for preparing cross linked polymeric composition.
142289 (10.04.74)	A process for reducing the concentration of dissolved by product alkali metal or ammonium thiosulfate or sulfate salts in aqueous H <sub>2</sub> S removal systems.
142294 (08.07.74)	A method for preparing a complex organometallic catalyst.

142344 (13.09.74)	A process for making hydrided magnesium alloys.
142415 (04.12.74)	A method for preparation of hard butter.
142433 (10.12.76)	Process for upgrading lignitic type coal as a fuel.
142441 (05.01.76)	Process for the production of carbon black.
142527 (08.07.74)	A method of making a high temperature nickel base alloys.

#### RENEWAL FEES PAID

105573	105904	106304	110703	110866	110960	111192	111227
111258	111824	112010	114566	115412	115948	116095	116111
116209	116385	121253	121276	121347	121348	121348	121372
121392	121464	121636	121685	121690	121914	121980	122038
122203	122274	122439	125834	126091	126240	126571	126877
126882	126995	127312	127331	131242	131347	131348	131429
131462	131501	131502	131523	131697	131698	132295	135384
135555	135570	135602	135735	135818	135825	135857	136097
136241	136303	136353	136377	136652	136878	137016	137017
137044	137512	137985	138011	138012	138037	138592	138901
138918	139726	139863	139864	139865	139667	140206	140454
140679	140821	140873	141196	141217	141308	141476	141694
141811	141866	142023	142076	142129	142137	142138	142358
142407	142408	142472	142561	142647	142790	142793	142824
142914	143186	143339	143596	143674	143721	143763	143942
144053	144391	144437	144669	144776	144800	144824	144825
144892	144906	145251	145492	145739	145825	145990	146000
146040	146135	146194	146546	146558	146790	146862	146906
147394	148044.						

#### RESTORATION PROCEEDINGS

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214,



Acharya Jagadish Bose Road, Calcutta-17 on or before the 13th August, 1981 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 139810 granted to Union Carbide India Limited for an invention relating to "improvement in or relating to method of manufacture of para-tertiary butyl phenol".

The patent ceased on the 28th January, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 28th February, 1981.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 139829 granted to Union Carbide India Limited for an invention relating to "a process of removing sulphuric acid colour producing impurities present in acetaldol route 2-ethyl hexanol and refining product so obtained."

The patent ceased on the 16th March, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 28th February, 1981.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 142486 granted to The Chief Controller Research And Development for an invention relating to "a process for activating a dielectric substrate for electroless deposition of metals."

The patent ceased on the 19th February, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 28th February, 1981.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 142761 granted to Eli Lilly and Company for an invention relating to "process for the preparation of 1-acyl-4-(O-halophenyl)-3 thiosemicarbazides."

The patent ceased on the 7th March, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 18th October, 1980.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 142762 granted to Eli Lilly and Company for an invention relating to "process for the preparation of 4-(O-halophenyl)-1, 2, 4-triazole-3-thiol".

The patent ceased on the 7th March, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 18th October, 1980.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 146977 granted to The Gwalior Rayon Silk Manufacturing (Weaving) Company Limited for an invention relating to "process for manufacture of high performance viscose rayon".

The patent ceased on the 1st Jan., 1981 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 28th March, 1981.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 149906. Crown International of D-141, Mansarovar Garden, New Delhi-110 015, an Indian Proprietary Concern. "Pram". September 12, 1980.

Class 1. No. 149915. Manik Office Equipments Private Limited of Jai Hind Estate, Building No. 2, Shop No. 9, Bhuleshwar, Bombay-400 002, Maharashtra, India. "Sieve". September 15, 1980.

Class 1. No. 149916. Manik Office Equipments Private Limited of Jai Hind Estate, Building No. 2, Shop No. 9, Bhuleshwar, Bombay-400 002, Maharashtra, India. "Vegetable Cutter". September 15, 1980.

Class 1. No. 149917. Manik Office Equipments Private Limited, of Jai Hind Estate, Building No. 2, Shop No. 9, Bhuleshwar, Bombay-400 002, Maharashtra, India. "Potato Cutter." September 15, 1980.

Class 1. No. 149918. Manik Office Equipments Private Limited of Jai Hind Estate, Building No. 2, Shop No. 9, Bhuleshwar, Bombay-400 002, Maharashtra, India. "Push Server". October 15, 1980.

Class 1. No. 149920. Manik Office Equipments Private Limited of Jai Hind Estate, Building No. 2, Shop No. 9, Bhuleshwar, Bombay-400 002, Maharashtra, India. "Hand Stitcher". September 15, 1980.

Class 1. No. 150096. Larsen & Toubro Limited of Powai Works, Saki-Vihar Road, P.O. Box 8901, Bombay-400 072, Maharashtra, India, an Indian Company. "Electromechanical Relay". October 31, 1980.

Class 3. No. 147955. Vikramjit Singh, 16-B, Sujan Singh Park, New Delhi-110003, India, an Indian National. "A Puppet". January 15, 1979.

Class 3. No. 149919. Manik Office Equipments Private Limited of Jai Hind Estate, Building No. 2, Shop No. 9, Bhuleshwar, Bombay-400 002, Maharashtra, India. "Letter". September 15, 1980.

Class 3. No. 149919. Manik Office Equipments Private Works, Saki-Vihar Road, P.O. Box 8901, Bombay-400 072, Maharashtra, India, an Indian Company. "Electromechanical Relay". October 31, 1980.

Class 3. No. 150097. Twinkle Products of Asit Apartments, Block No. B/2, Kane Road, Bandstand, Bandra, Bombay-400 072, Maharashtra, an Indian Partnership Firm. "Tumbler". October 31, 1980.

Name Index of applicants for Patents for the month of February, 1981 (Nos. 115/Cal/81 to 223/Cal/81, 31/Bom/81 to 60/Bom/81, 16/Mas/81 to 38/Mas/81, 60/Del/81 to 118/Del/81).

Name Appln. No.

—A—

Abraham, C. J.—23/Mas/81.

Ahmedabad Manufacturing and Calco Printing Company Limited, The.—42/Bom/81, 43/Bom/81, 44/Bom/81.

Airwick A. G.—210/Cal/81.

Aktiebolaget Bofors.—91/Del/81, 92/Del/81, 93/Del/81.

Amsted Industries Incorporated.—209/Cal/81.

Anand, S. K.—165/Cal/81.

Arvind Mills Ltd., The.—36/Bom/81.

*Name*      *Appln. No.*

—B—

BASF Aktiengesellschaft.—128/Cal/81.  
B. F. Goodrich Company, The.—170/Cal/81.  
Bajapai, O. P.—16/Mas/81.  
Balasubramanian, R. (Dr.).—38/Mas/81.  
Barcha, V. V.—37/Bom/81.  
Barringer Research Limited.—100/Del/81.  
Basu, R.—166/Cal/81.  
Bayer Aktiengesellschaft.—71/Del/81.  
Beloit Corporation.—119/Cal/81, 149/Cal/81, 175/Cal/81.  
Benatar, V.—197/Cal/81.  
Bendix Corporation, The.—62/Del/81.  
Bharat Heavy Electricals Ltd.—68/Del/81, 97/Del/81, 113/Del/81, 114/Del/81.  
Bhide, V. R.—85/Del/81.  
Bhoot, S. S.—49/Bom/81.  
Breilly, S. A.—186/Cal/81.  
Brekke, C. E.—222/Cal/81.  
Brovasky Zavod Porosbkovoi Metallurgii.—163/Cal/81.

—C—

CPC International Inc.—127/Cal/81.  
CWM Corporation.—180/Cal/81.  
Cassella Aktiengesellschaft.—221/Cal/81.  
Cassou, R.—171/Cal/81.  
Chaturvedi, U. K.—106/Del/81.  
Chaugule, P. J.—41/Bom/81.  
Ciba-Geigy of India Limited.—34/Bom/81.  
Colvette, D.—218/Cal/81.  
Combustion Engineering, Inc.—156/Cal/81, 223/Cal/81.  
Continental Carbon Company.—193/Cal/81.  
Corak Limited.—190/Cal/81, 191/Cal/81.  
Council of Scientific and Industrial Research.—73/Del/81, 84/Del/81, 98/Del/81, 104/Del/81, 105/Del/81, 115/Del/81, 116/Del/81, 117/Del/81.  
Creusot-Wire Enterprise.—66/Del/81.

—D—

Dr. C. Otto & Comp. GMBH.—160/Cal/81, 161/Cal/81, 162/Cal/81.  
Dainichi-Nippon Cables, Ltd.—153/Cal/81.  
Das Gupta, C. (Smt.).—115/Cal/81.  
Dattatreya, E. (Smt.).—89/Del/81.  
Dave, N. B.—38/Bom/81.  
Dave, N. M. (Mrs.).—32/Bom/81.  
Deekshatulu, B. L.—16/Mas/81.  
Dharamsi Morarji Chemical Company Limited, The.—59/Bom/81.  
Donetsky Nauchno Issledovatel'sky Institut Chernoi Metallurgii.—163/Cal/81.  
Dutta Gupta, S.—159/Cal/81.  
Dynamit Noble Aktiengesellschaft.—172/Cal/81, 205/Cal/81.

—E—

E. N. I. Ente Nazionale Idrocarburi.—201/Cal/81.  
E. R. Squibb & Sons, Inc.—67/Del/81.  
Eagle Flask Private Limited.—46/Bom/81.

*Name*      *Appln. No.*

Egyesult Izzolampa ES Villamossagi RT.—117/Cal/81  
Elkem A/S.—202/Cal/81.  
Escher Wyss Limited.—124/Cal/81.

—F—

Finley, W. T.—189/Cal/81.  
Flogates Limited.—182/Cal/81.  
Formica Corporation.—217/Cal/81.  
Freese, U. E.—188/Cal/81.

—G—

G. D. Societa.—60/Del/81.  
Ghosh, P. K.—140/Cal/81.  
Goepp, R. A.—188/Cal/81.  
Goyle, N. K.—60/Bom/81.  
Gulf Research & Development Company.—132/Cal/81, 133/Cal/81, 134/Cal/81.  
Gulhane, V. N.—47/Bom/81.  
Gureja, O. N.—58/Bom/81.

—H—

Haider, S. S.—76/Del/81.  
Haideri, A. H.—571/Bom/81.  
Hanna Mining Company, The.—64/Del/81.  
Hazra, S.—200/Cal/81.  
Helix Technology Corporation.—152/Cal/81.  
Hindustan Lever Limited.—39/Bom/81, 40/Bom/81.

—I—

IDL Chemicals Ltd.—26/Mas/81.  
Indian Aluminium Company Limited.—208/Cal/81.  
Indian Institute of Technology.—55/Bom/81, 107/Del/81, 108/Del/81.  
Instrumentalen Zavod "Arda".—137/Cal/81.  
Interox Chemicals Limited.—143/Cal/81.  
Italtel Societa Italiana Telecomunicazioni S.p.A.—121/Cal/81, 122/Cal/81, 123/Cal/81.

—J—

JPM Enterprises Private Limited.—54/Bom/81.  
James G. Brown & Associates, Inc.—86/Del/81.  
James Mackie & Sons Limited.—118/Cal/81.  
Jaya Hind Industries Limited.—45/Bom/81.  
Jay Engineering Works Limited, The.—96/Del/81.  
John, J.—36/Mas/81, 37/Mas/81.

—K—

Kable-Und Metallwerke Gutehoffnungshutte Aktiengesellschaft.—183/Cal/81.  
Kansas State University Research Foundation.—95/Del/81.  
Kar, S. (Smt.).—115/Cal/81.  
Khan, N.—181/Cal/81.  
Khanna, P. (Dr.) (Miss).—99/Del/81.  
Khosla, K. G.—87/Del/81, 118/Del/81.  
Kitasato Kenkyusho.—144/Cal/81.  
Klein Schanzlin & Becker A. G.—158/Cal/81.  
Kotwal, S. P.—52/Bom/81.  
Krings, J.—141/Cal/81.  
Kumar, A.—80/Del/81.  
Kumar, V.—80/Del/81.

Name Appln. No.

—L—

Lalla, J. K.—32/Bom/81.

Laporte Industries Limited.—192/Cal/81.

Licentia Patent-Verwaltungs G.m.b.H.—157/Cal/81.

Linden-Alimak.—72/Del/81.

Loeb, M. P.—188/Cal/81.

Lucas Industrial Ltd.—34/Mas/81, 35/Mas/81.

—M—

Macart Textiles (Machinery) Limited.—145/Cal/81, 146/Cal/81.

Masuda, Y.—173/Cal/81.

Mcintire, R. G.—218/Cal/81.

Mitsubishi Denki Kabushiki Kaisha.—220/Cal/81.

Mittu, N.—19/Mas/81, 20/Mas/81.

Montedison, S.p.A.—178/Cal/81.

Mukherjee, A. K.—222/Cal/81.

Murali, J.—22/Mas/81.

—N—

Nanduri, V. (Dr.).—109/Del/81, 110/Del/81, 111/Del/81, 112/Del/81.

National Chemical Co.—31/Bom/81.

Newport Pharmaceuticals International Inc.—94/Del/81.

Nippon Kokan Kabushiki Kaisha.—204/Cal/81.

—O—

Orion-ythyma Oy.—198/Cal/81.

Otto-Simon Carves Limited.—102/Del/81.

Oxyweld Engineers.—216/Cal/81.

—P—

Phillips Petroleum Corporation.—120/Cal/81.

Pilkington Brothers Limited.—215/Cal/81.

Pilkington Brothers Limited.—215/Cal/81.

Placer Exploration Limited.—63/Del/81.

Plastona (John Waddington) Limited.—88/Del/81.

Precision Valve Corporation.—130/Cal/81.

Precitec.—18/Mas/81.

—R—

R. I. A. T.—184/Cal/81.

Raghavan, K. R.—28/Mas/81.

Ramachandran, C. S.—31/Mas/81, 32/Mas/81, 33/Mas/81.

Rama Chandran, P.—30/Mas/81.

Rao, K. M. M.—16/Mas/81.

Rao, K. R.—16/Mas/81.

Rao, U. V. V.—17/Mas/81.

Rashinkar, N. V.—56/Bom/81.

Rasmussen, O-B. (Ole-Bendt).—219/Cal/81.

Rathi, S. R.—48/Bom/81.

Royalty Finans AB.—206/Cal/81.

Rukmani.—21/Mas/81.

Ryazansky Radiotekhnichesky Institut.—142/Cal/81.

Name Appln. No.

—S—

"s.a.PR.B", Societe anonyne.—154/Cal/81, 155/Cal/81, Saboo, D. P.—69/Del/81.

Sambamurthy, Y.—16/Mas/81.

Sanches, I. O.—83/Del/81.

Sanghani, S. K.—51/Bom/81.

Sanofi.—61/Del/81.

Schubert &amp; Salzer Maschinenfabrik Aktiengesellschaft.—194/Cal/81.

Sebastian, G.—25/Mas/81.

Semac Pvt. Ltd.—27/Mas/81.

Servo Corporation of America.—195/Cal/81, 196/Cal/81.

Sharma, M.—50/Bom/81.

Shenoy, H. R.—29/Mas/81.

Shinagawa Shirorenga Kabushiki Kaisha.—204/Cal/81.

Shri Ram Institute for Industrial Research.—74/Del/81, 75/Del/81.

Siemens Aktiengesellschaft.—131/Cal/81, 135/Cal/81, 164/Cal/81, 176/Cal/81, 185/Cal/81, 203/Cal/81, 207/Cal/81.

Sirajuddin, M.—33/Bom/81.

Sivaramakrishnan.—21/Mas/81.

Smith Kline-Rit.—103/Del/81.

Societe Alsacienne de constructions mecaniques de mûlhouse.—65/Del/81.

Societe Chimique Des Charbonnages.—81/Del/81.

South Western Industrial Research Limited.—101/Del/81.

Sredneaziatsky Nauchno-Issledovatel'sky Institut prirodnogo Gaza.—126/Cal/81, 139/Cal/81, 212/Cal/81.

Staedtler &amp; Uhl.—214/Cal/81.

Standard Batteries Limited, The.—35/Bom/81.

Steag Kernenergie GMBH.—150/Cal/81.

Stirling H. T.—213/Cal/81.

Sumitomo Electric Industries, Ltd.—116/Cal/81.

—T—

TEL Graphic Design/Industrial Design/Public Relations B.V.—177/Cal/81.

Tata Engineering and Locomotive Company Limited.—53/Bom/81.

Tehenet, R.—70/Del/81.

Toth Aluminium Corporation.—129/Cal/81.

Toyo Engineering Corporation.—199/Cal/81.

Trest Leningradorgstroj Glavleningradstroya.—179/Cal/81.

—U—

Uss Engineers and Consultants, Inc.—90/Del/81.

Union Carbide Corporation.—138/Cal/81, 187/Cal/81.

Union Carbide India Limited.—147/Cal/81, 148/Cal/81.

Usha Breco Limited.—151/Cal/81.

—V—

Velsicol Chemical Corporation.—82/Del/81.

Vij, D. R. (Dr.).—77/Del/81, 78/Del/81, 79/Del/81.

Voest-Alpine Aktiengesellschaft.—174/Cal/81.

Vsesojuzny Nauchno-Issledovatel'sky I Proektno-Konstruktorsky Institut Atomnogo Energeticheskogo Mashinostroyeniya.—125/Cal/81, 169/Cal/81.

Vyas, R. V.—38/Bom/81.

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<i>Name</i>	<i>Appln. No.</i>	<i>Name</i>	<i>Appln. No.</i>
	—W—		—X—
W. L. Gore & Associates, Inc.—167/Cal/81.		Xerox Corporation.—211/Cal/81.	
Westinghouse Electric Corporation.—136/Cal/81.			
Wilson, K. T. (Dr.).—168/Cal/81.			

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S. VEDARAMAN,  
Controller-General of Patents,  
Designs and Trade Marks